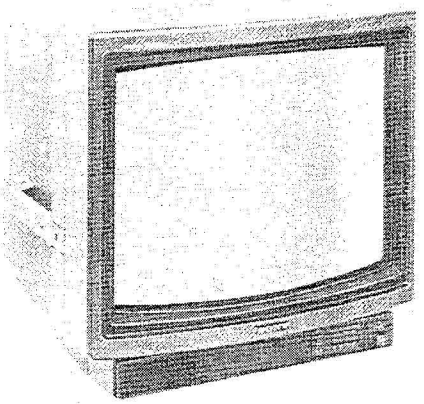
PVM-2010QM

361

SERVICE MANUAL

AEP Model
UK Model

Chassis No. SCC-557A-A



April, 1984

SPECIFICATIONS

Color system	PAL, SECAM, NTSC and NTSC4.43 systems, switched automatically
Picture tube	Trinitron tube Approx. 52 cm (20 inches) 100 degree deflection (Approx. 48 cm picture measured diagonally)
Resolution	350 TV lines, 440 × 240 dots
Color temperature	6,500°K/9,300°K
Frequency response	8 MHz (-3 dB, RGB) 6 MHz (-3 dB, composite video)
Horizontal linearity	±5%
Vertical linearity	±5%
Line pull range	Horizontal ±500 Hz Vertical 8 Hz
Overscan of the picture	5%
Return loss	4 MHz, 35 dB (LINE A , LINE B)
Zooming	Within 2%
Convergence	Central area 1 mm Outside of central area 1.3 mm
Brightness	More than 50 foot-Lamberts
Inputs	TUNER : 6-pin DIN connector VIDEO IN : BNC connector VTR : 8-pin connector (pins 2 and 6) Composite 1 V p-p ±6 dB, sync negative, 75 ohms and high impedance switchable AUDIO IN : minijack VTR : 8-pin connector (pins 1 and 5) -5 dBs high impedance EXT SYNC IN : BNC connector Composite sync 2 - 8 V p-p, negative, 75 ohms and high impedance switchable RGB IN : BNC connectors 0.7 V p-p, non composite AUDIO (RGB) IN : minijack -5 dBs high impedance
Outputs	Loop through VIDEO OUT : BNC connector AUDIO OUT : minijack EXT SYNC OUT : BNC connector RGB OUT : BNC connectors AUDIO (RGB) OUT : minijack
Audio output	1.5 W
Power requirement	220 – 240 V ac, 50/60 Hz
Power consumption	120 W (max.)
Dimensions	Approx. 486 × 463 × 539 mm (w/h/d) (19 1/4 × 18 1/4 × 21 1/4 inches)
Weight	Approx. 29 kg (63 lbs 15 oz)
Optional accessories	Monitor stand SU-530 Monitor hood VF-500

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

MICROFILM

TRINITRON®
COLOR VIDEO MONITOR
SONY®

MON

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

CMPTR : 25-pin D connector

Pin No.	Signal	Signal level
1	IBM select	High state (5 V) : IBM mode Low state : 3 Bit TTL
2	Audio select	High state (5 V or open) : audio inputs from the CMPTR connector Low state (less than 0.4 V) : audio inputs from the LINE A AUDIO IN jack
3	H. sync or composite sync	Negative polarity (1) 1 V p-p, 75Ω terminated (2) TTL level •(1) or (2) is selected by the pin 9.
4	Blue input	Positive polarity (1) Analog signal (0.7 V p-p, 75Ω terminated, non sync) (2) Digital signal (TTL level) •(1) or (2) is selected by the pin 9.
5	Green input	
6	Red input	
7	+ 12 V power supply	
8	+ 5 V power supply	
9	Analog/digital mode select	High state (open) : Analog signal (0.7 V p-p) Low state (ground) : Digital signal (TTL level)
10	RGB/NORMAL mode select	High state (5 V or open) : RGB inputs from the microcomputer Low state (ground) : composite video inputs from the LINE A VIDEO IN connector
11	V-sync	Negative polarity TTL level
12	Blanking	High state (5 V or open) : video inputs from the microcomputer Low state (ground) : Superimposed signal of composite video inputs from the LINE A VIDEO IN connector and the RGB inputs from the microcomuter

CMPTR : 25-pin D connector

Pin No.	Signal	Signal level
13	Audio input	Input level -5 dB (100% modulation), input impedance more than 47 kΩ
14	EXT/INT mode sync switch	High state (open) : microcomputer sync Low state : LINE A sync
15 I 24	ground	
25	IBM luminance signal	•Positive polarity, TTL level when the high state is selected at the pin 1. •Set to the low state (ground) when the low state is selected at the pin 1.

SECTION 1
GENERAL

1-1. FEATURES

- The PAL, SECAM, NTSC or NTSC4.43* color system is selected automatically.
- Colorpure Filter: Fine picture detail without color spill or color noise can be obtained by setting the COMB FILTER select switch to COMB.
- Automatic Frequency Control: The horizontal AFC time constant is selected by setting this switch to either the fast or slow mode.
- LINE A/LINE B/VTR/RGB/CMPTR: Selects the inputs.
- TUNER: Permits connection of the special color TV tuner with a single connecting cable.
- Superimposed Picture: When utilizing the SMI-7073 superimposer (optional) and a microcomputer, the pictures from a videodisc player and a microcomputer can be superimposed.

* A signal of NTSC4.43 system is obtained by playing back NTSC-recorded video tapes with a video tape recorder/player specially designed for use with this system.

1-2. PRECAUTIONS

On safety

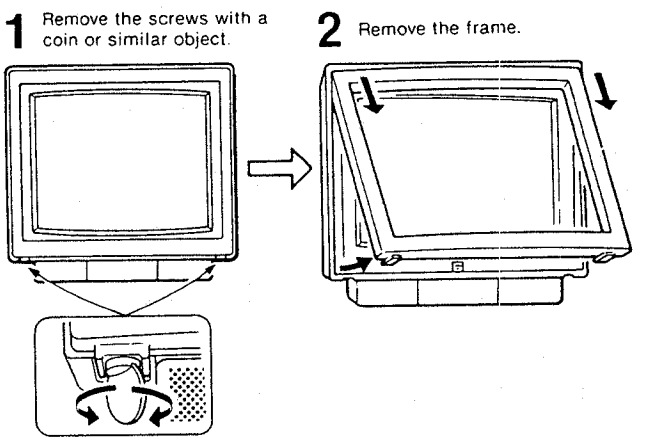
- Check that the operating voltage of your unit is identical with the voltage of your local power supply.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the ac power cord, pull it out by the plug. Never pull the cord itself.

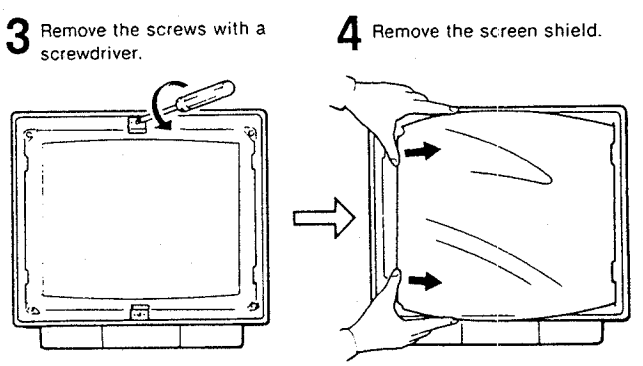
On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

On cleaning

- To keep the unit looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.
- To clean the screen, the frame and the screen shield may be removed as follows.



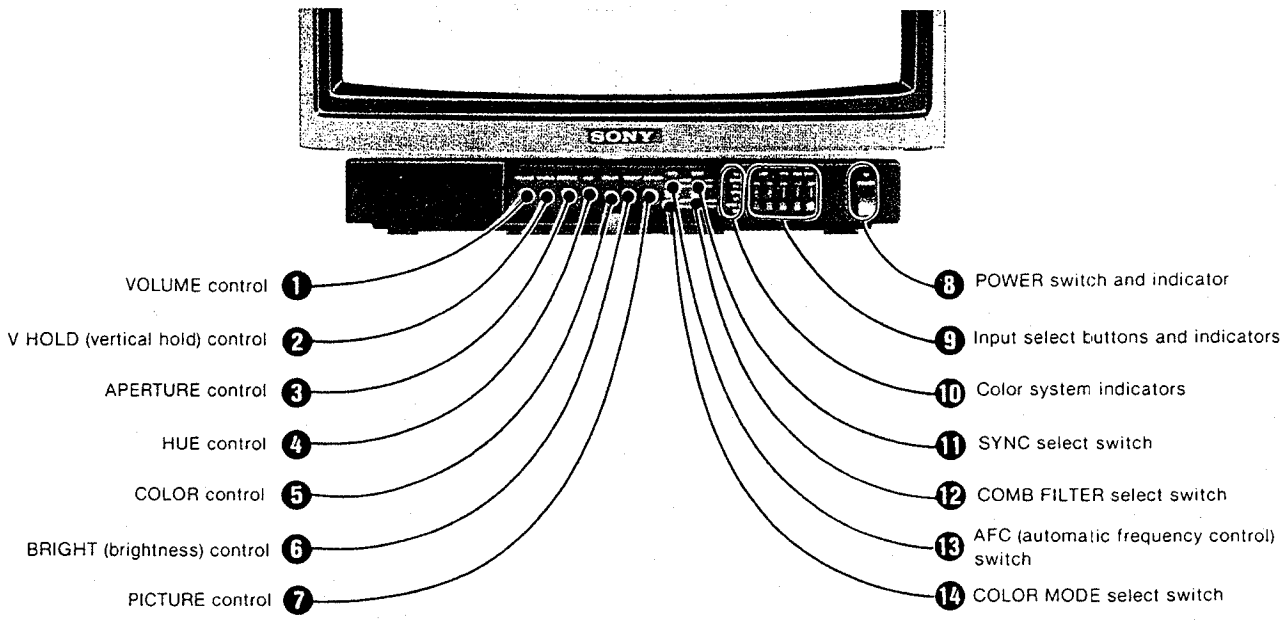


On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

If you have any questions about this unit, contact your Sony service facility.

1-3. LOCATION AND FUNCTION OF PARTS AND CONTROLS


VOLUME control 1
V HOLD (vertical hold) control 2
APERTURE control 3
HUE control 4
COLOR control 5
BRIGHT (brightness) control 6
PICTURE control 7
8 POWER switch and indicator
9 Input select buttons and indicators
10 Color system indicators
11 SYNC select switch
12 COMB FILTER select switch
13 AFC (automatic frequency control) switch
14 COLOR MODE select switch

On the top : Color temperature selector
This selector is set to 9,300°K at the factory. If necessary, set to 6,500°K with a minus screwdriver.

❶ VOLUME control
Turn this control clockwise or counterclockwise to obtain the desired volume.

❷ V HOLD (vertical hold) control
If the picture rolls vertically, correct it with this control.

❸ APERTURE control
Adjusts the sharpness of the picture.
When the control is turned all the way to the left, the picture will have normal control. If reception conditions result in a snowy picture, better results will be obtained with a softer picture.

❹ HUE control
This control is effective only for the NTSC or $NTSC_{4.43}$ system.
Use to obtain the most natural skin tones. Clockwise rotation makes the skin tones greenish ; counterclockwise rotation makes them purplish.

❺ COLOR control
Adjusts the color intensity of the picture. Clockwise rotation makes the picture vivid ; counterclockwise rotation makes it pale.

❻ BRIGHT (brightness) control
Adjusts the brightness. Normally set this control at the center detent position.

❼ PICTURE control
Adjusts the contrast, color intensity and brightness simultaneously in the proper ratio.

❽ POWER switch and indicator
To turn the monitor on, depress the POWER switch. The indicator will light. To turn the monitor off, press the switch again.

❾ Input selector buttons and indicators
Press to select the program to be monitored.
LINE A : for a signal from the LINE A (VIDEO/AUDIO or TUNER) (TUNER) connectors.
LINE B : for a signal from the LINE B connectors.
VTR : for a signal from the 8-pin VTR connector.
RGB : for a signal from the R, G, B and AUDIO (RGB) connectors.
CMPTR : for a signal from the 25-pin CMPTR connector.

When an input select button is pressed, the indicator above the button will light up.

❿ Color system indicators
Indicate the color system of the playback of the VTR.

⓫ SYNC select switch
Sync may be supplied from an external sync generator to the EXT SYNC IN connector on the rear panel. When an external SYNC is supplied with either composite or non-composite video input, release the SYNC SELECT switch (EXT). When composite video is supplied without external sync, depress the SYNC select switch (INT).

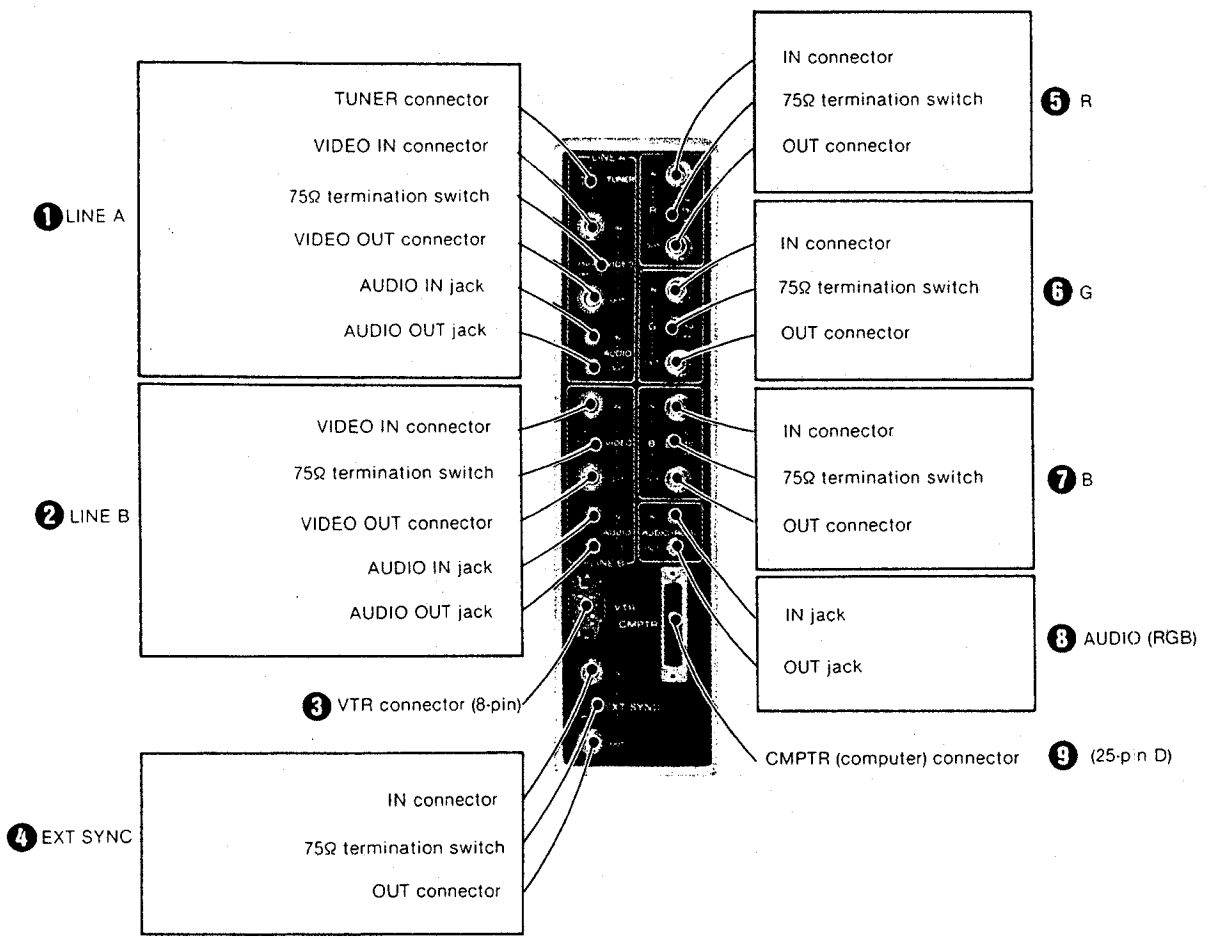
⓬ COMB FILTER select switch
Keep this switch depressed (COMB) during normal use to obtain fine picture detail without color spill or color noise. When a microcomputer, such as the APPLE II, is connected and stripes appear, release this switch (TRAP).

⓭ AFC (automatic frequency control) switch
Select the AFC operation in the fast mode or slow mode.
FAST : incoming sync timing errors are compensated for.
SLOW : incoming sync timing errors are displayed on the screen. This mode is used to monitor the jitter from the VTR.

⓮ COLOR MODE select switch
Usually keep this switch depressed to select the color system automatically. Release this switch when the picture receiving SECAM color sources is distorted. The picture will become clear.

1-4. SYSTEM CONNECTION

CONNECTORS FOR VIDEO/AUDIO/MICROCOMPUTER



❶ LINE A ❷ LINE B
Press the LINE A or LINE B input select button to monitor the signal.

TUNER connector (BNC)
Connect to the output connector on the special color TV tuner with the connecting cable supplied with the tuner. The video and audio signals and power can be connected simultaneously with this cable. When the tuner is connected to this connector, the VIDEO IN/OUT connectors and the AUDIO IN/OUT connectors of LINE A cannot be used. Press the LINE A input select switch to monitor the signal from a color TV tuner.

VIDEO IN connectors (BNC)
Connect to the video output of a video tape recorder or another monitor (for loop through connection), or to a color camera.

75Ω termination switches
When only one monitor is used, set the switch to ON. When several monitors are connected, set the switch of the last monitor in the looped chain to ON and set it to OFF on the other monitors.

VIDEO OUT connectors (BNC)
Connect to the video input of another monitor or a video tape recorder.

AUDIO IN jacks (minijack)
Connect to the audio output of a video tape recorder or another monitor (for loop through connection), or to a microphone using a suitable microphone amplifier.

AUDIO OUT jacks (minijack)
Connect to the audio input of another monitor or a video tape recorder.

❸ VTR connector (8-pin)
Connect to a video tape recorder equipped with an 8-pin connector. For monitoring, press the VTR input select button.
For connection, use the optional video cable, VMC-3P(3 m), -5P(5 m), -10P(10 m), -25P(25 m) or -50P(50 m).

❹ EXT SYNC
IN connector (BNC)
Connect to an external sync generator.

75Ω termination switch
When equipment is connected to the EXT SYNC OUT connector, set the switch to OFF. When nothing is connected, set to ON.

OUT connector (BNC)
Supplies the external sync signal from the external sync generator connected to the EXT SYNC IN connector.

❺ R ❻ G ❼ B
IN connectors (BNC)
Allow a character generator, microcomputer or video camera having analog RGB outputs to be connected. Press the RGB input select button to monitor the signal.

75Ω termination switches
When only one monitor is used, set the switch to ON. When several monitors are connected, set the switch of the last monitor in the looped chain to ON and set it to OFF on the other monitors.

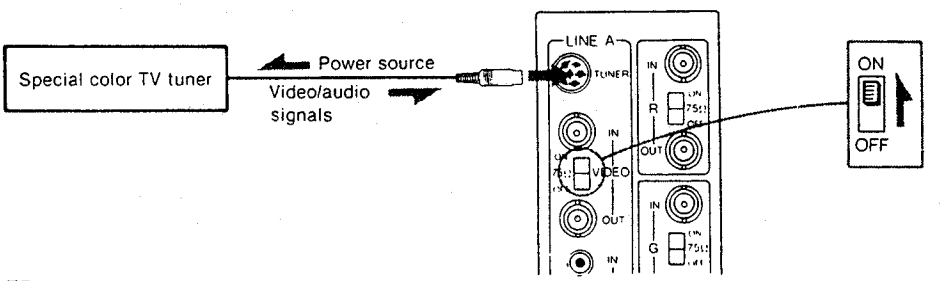
OUT connectors (BNC)
Connect to the analog RGB inputs of another monitor.

❽ AUDIO (RGB)
IN jack (minijack)
Connect to the audio output of the equipment connected to the RGB IN connectors. Press the RGB input select button to monitor the signal.

OUT jack (minijack)
Connect to the RGB audio input of another monitor.

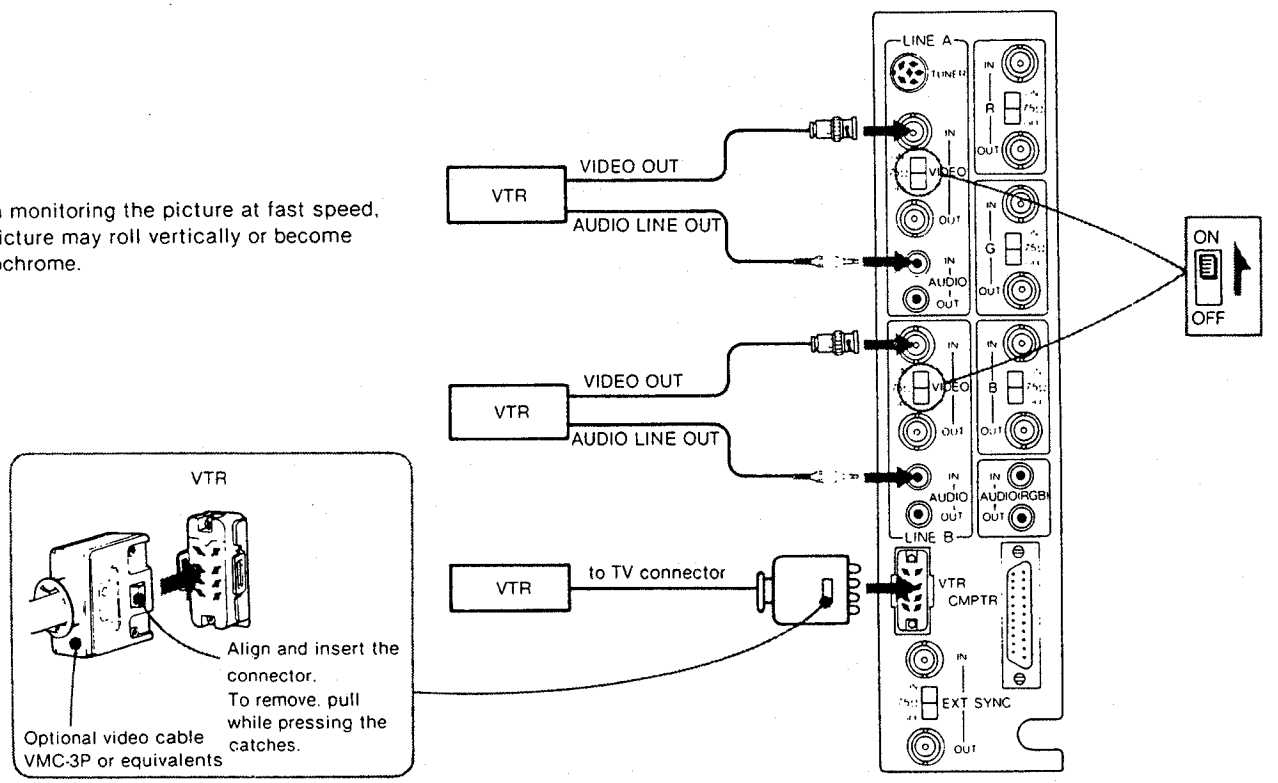
❾ CMPTR (computer) connector (25-pin D)
Connect to a microcomputer with digital or analog RGB outputs. Press the CMPTR input select button to monitor the signal.

CONNECTING A COLOR TV TUNER

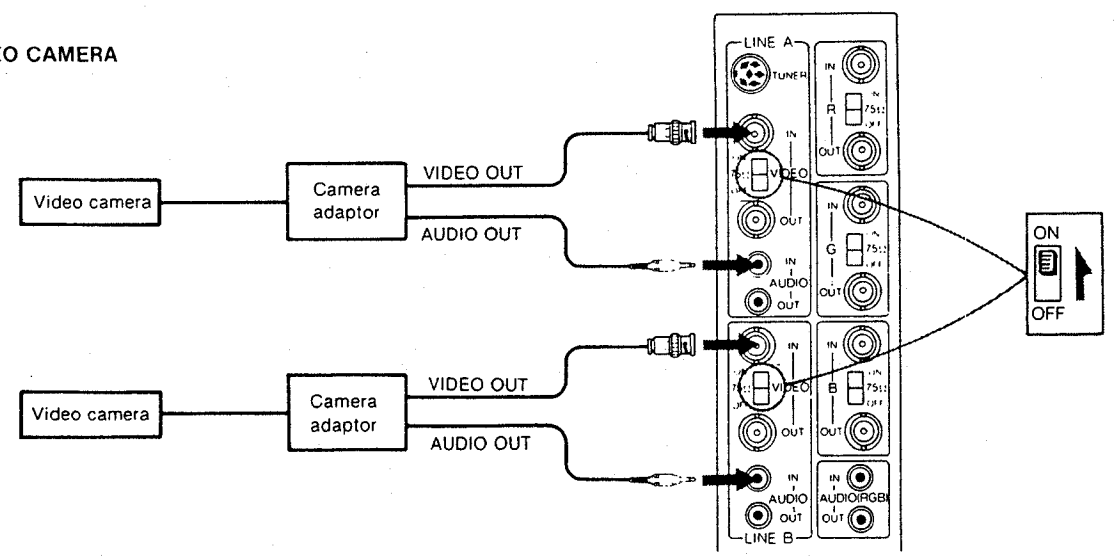


CONNECTING A VIDEO TAPE RECORDER

Note
When monitoring the picture at fast speed, the picture may roll vertically or become monochrome.



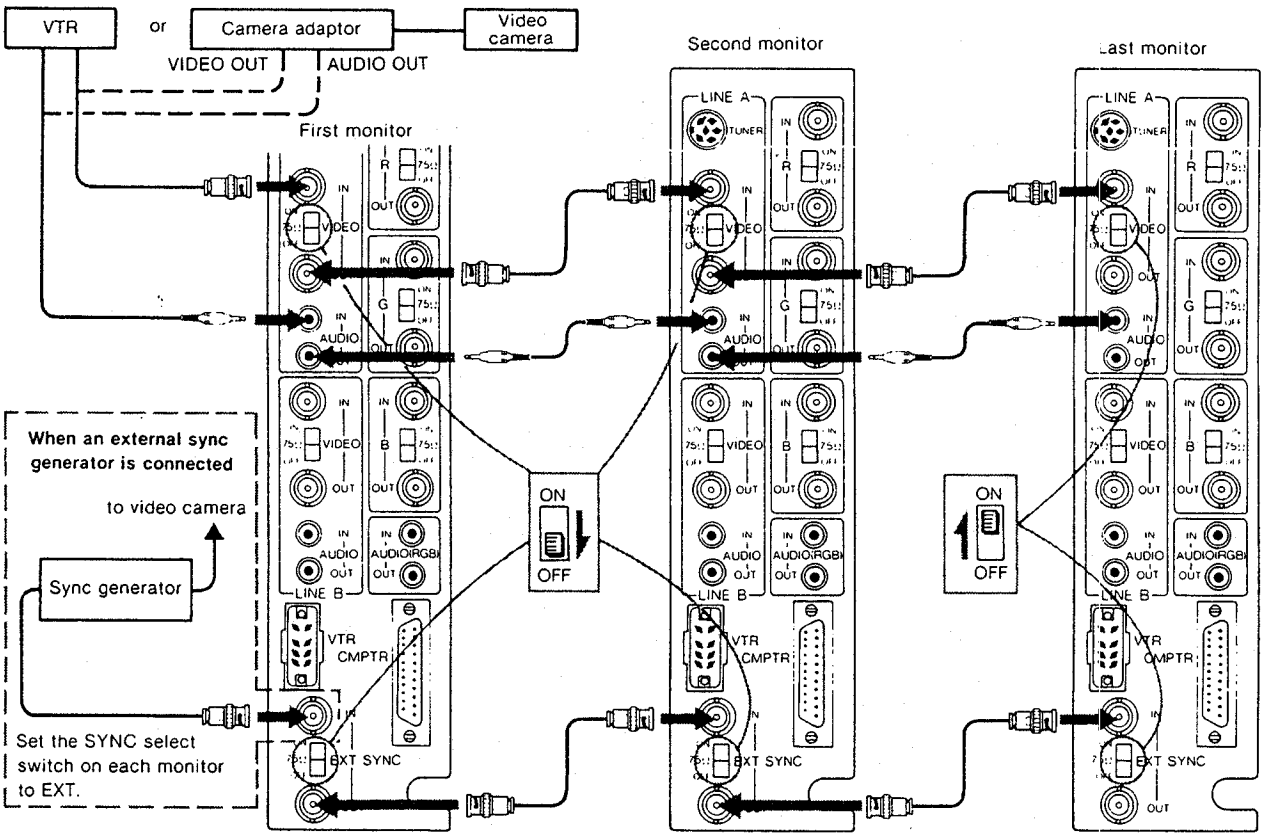
CONNECTING A VIDEO CAMERA



MULTIPLE MONITOR CONNECTION

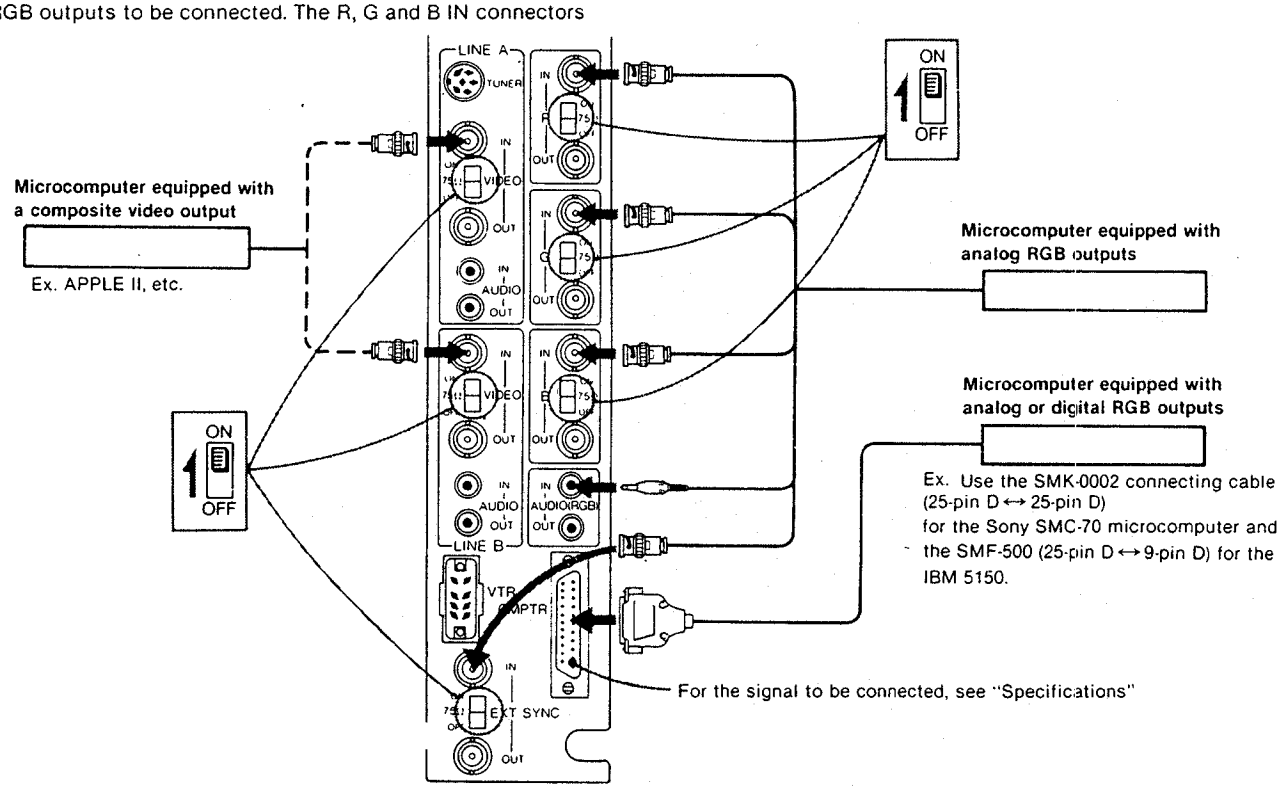
Up to 10 monitors may be connected. Set the 75Ω termination switch of the last monitor to ON and that of the other monitors to OFF.

The LINE A or LINE B input select button on each mointor should be pushed in.



CONNECTING A MICROCOMPUTER

The CMPTR connector allows a microcomputer with digital or analog RGB outputs to be connected. The R, G and B IN connectors allow a microcomputer with analog RGB outputs to be connected.


Microcomputer equipped with a composite video output
Ex. APPLE II, etc.
Microcomputer equipped with analog RGB outputs
Microcomputer equipped with analog or digital RGB outputs
Ex. Use the SMK-0002 connecting cable (25-pin D ↔ 25-pin D) for the Sony SMC-70 microcomputer and the SMF-500 (25-pin D ↔ 9-pin D) for the IBM 5150.
For the signal to be connected, see "Specifications"
ON
OFF
LINE A
LINE B
VTR CMPTR
EXT SYNC

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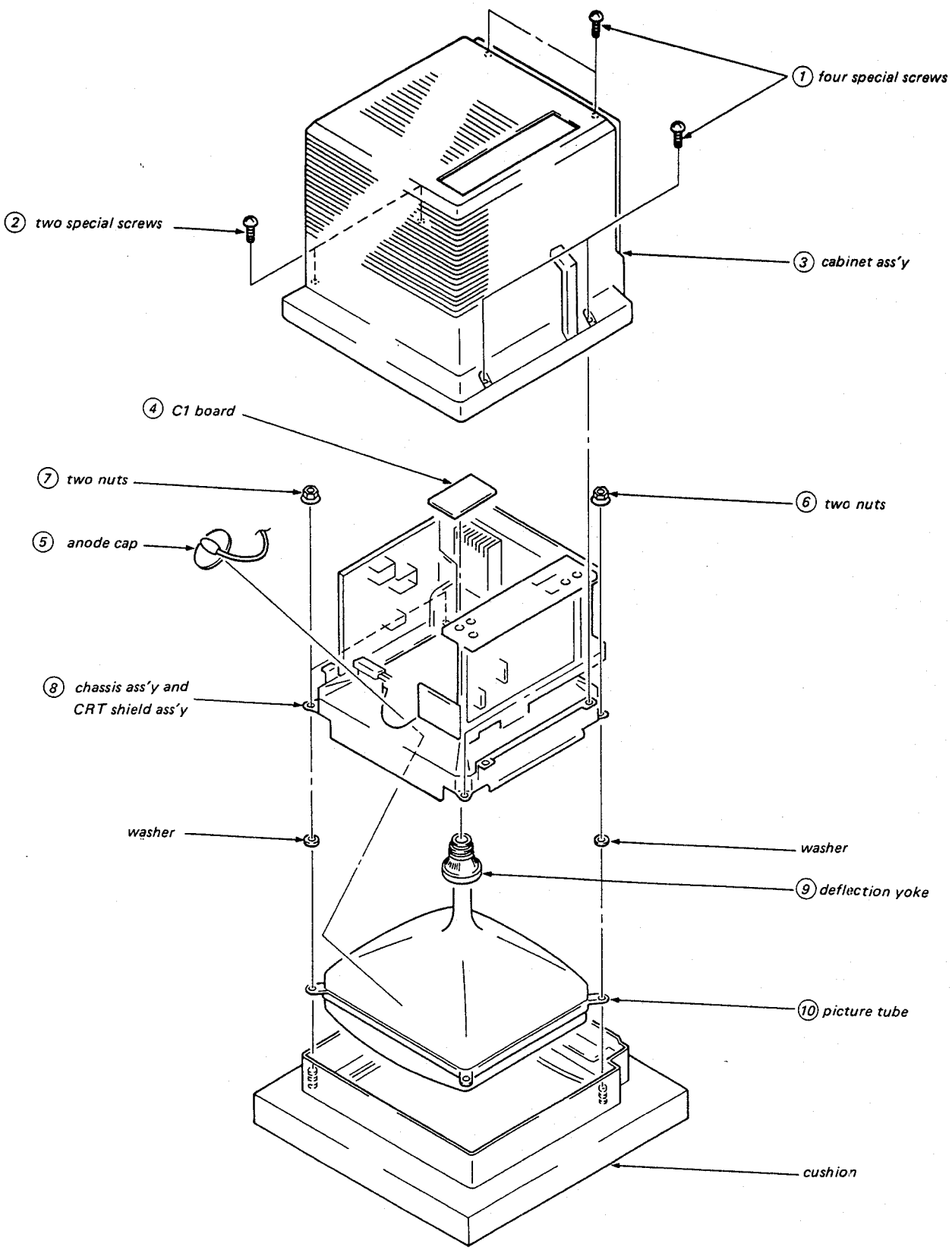
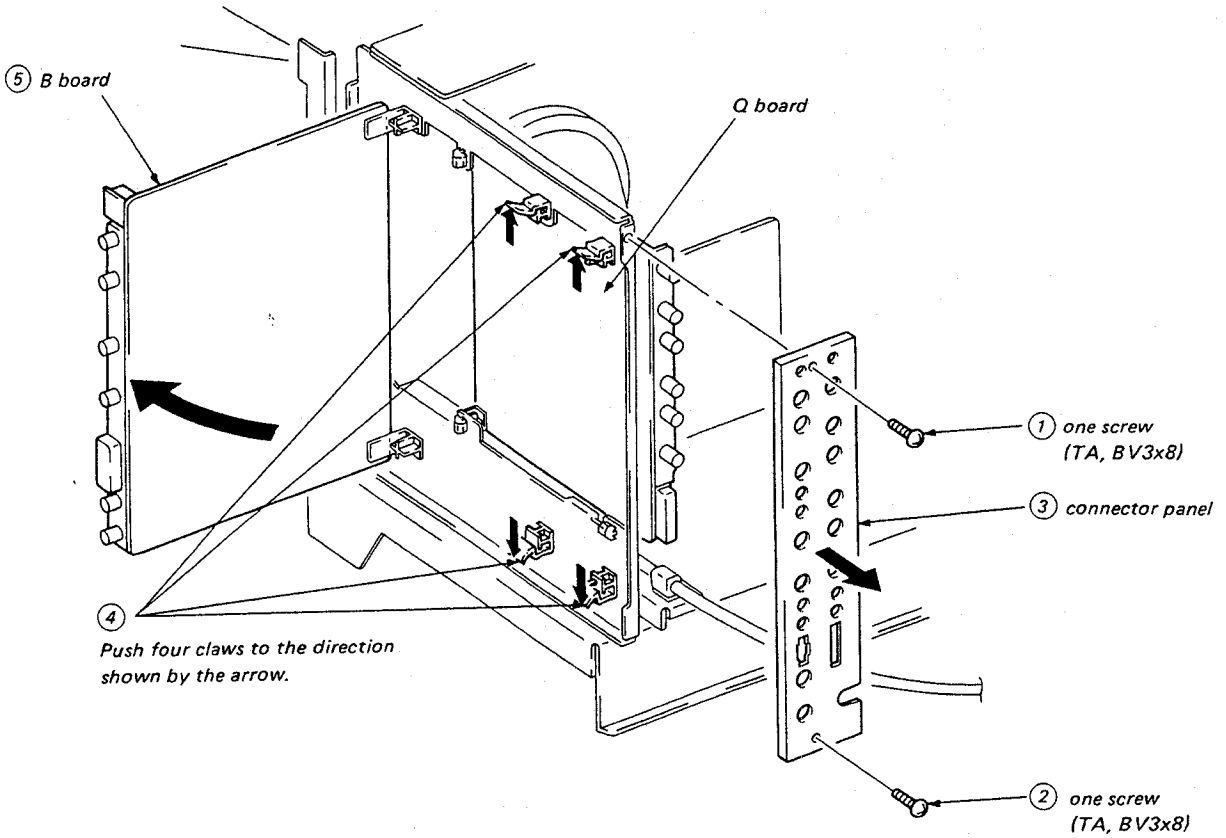
SECTION 2
DISASSEMBLY

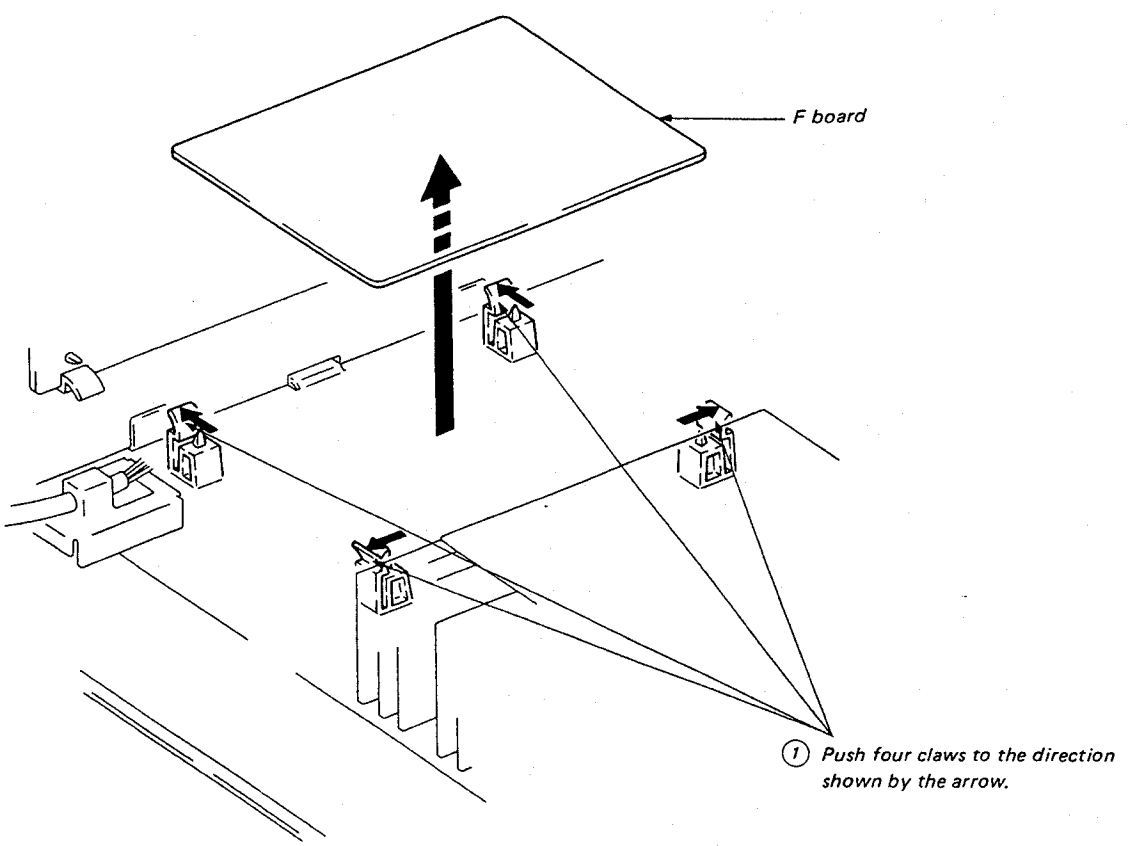
(1) CABINET ASS'Y AND PICTURE TUBE REMOVAL



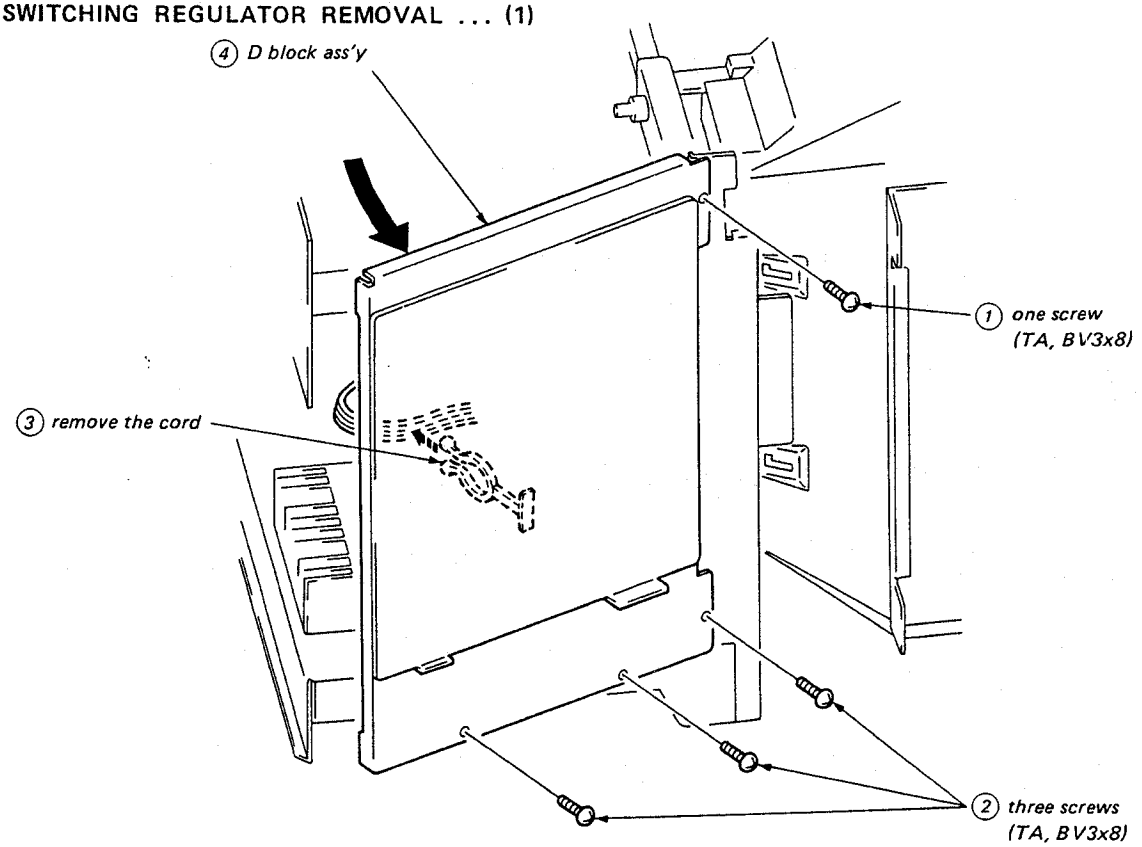
(2) FOR CHECKING B AND Q BOARD UP



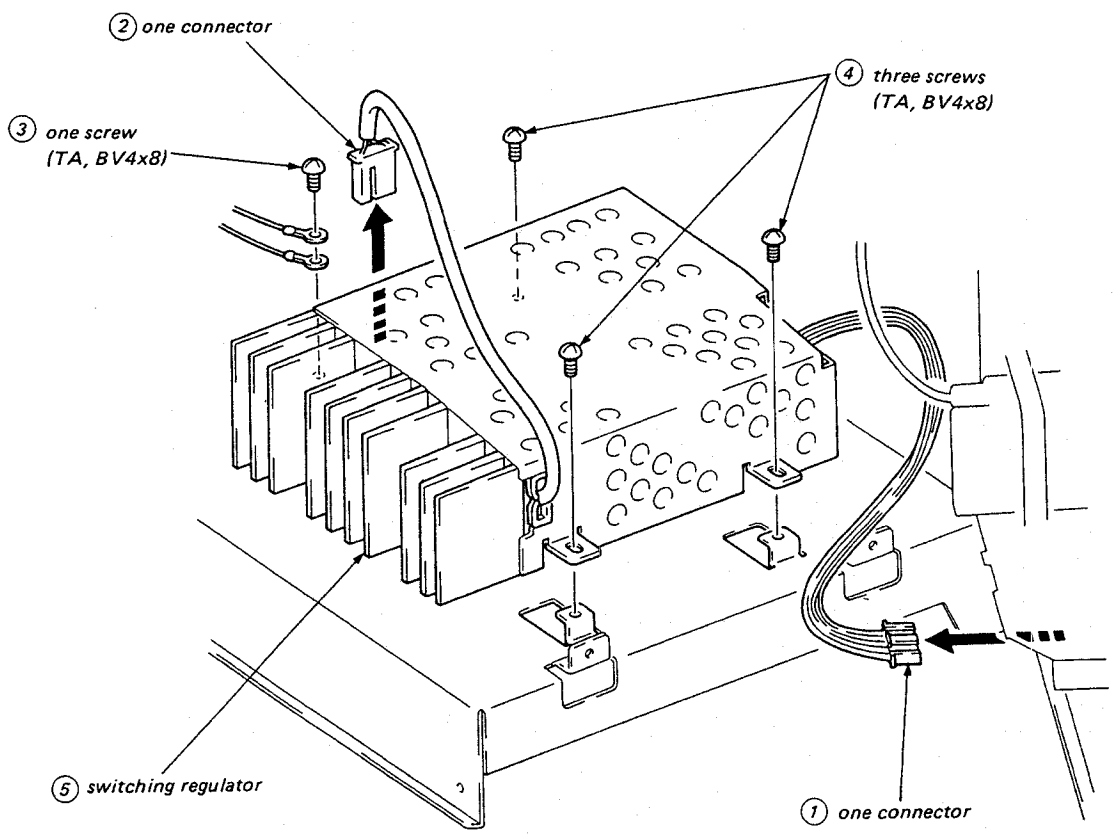
(3) F BOARD REMOVAL



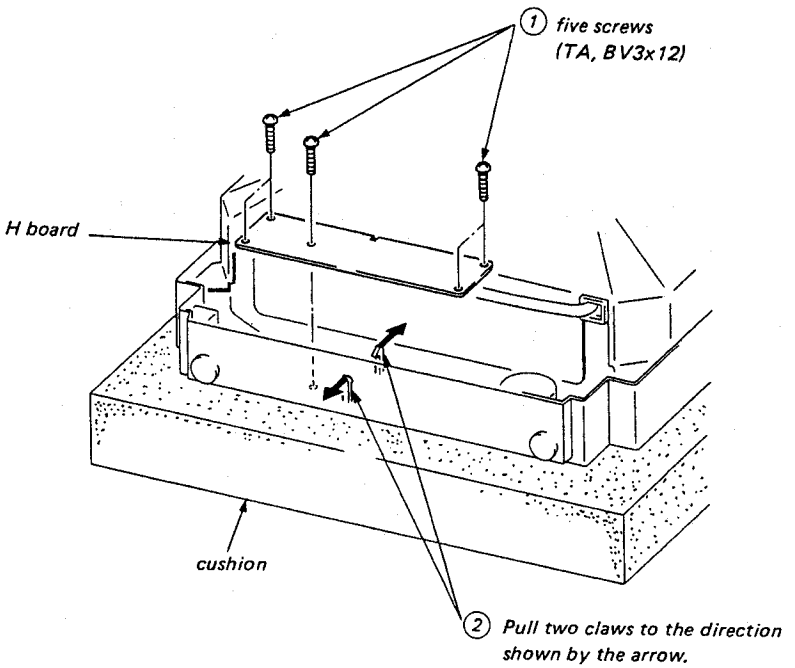
(4) SWITCHING REGULATOR REMOVAL ... (1)



(5) SWITCHING REGULATOR REMOVAL ... (2)



(6) H BOARD REMOVAL

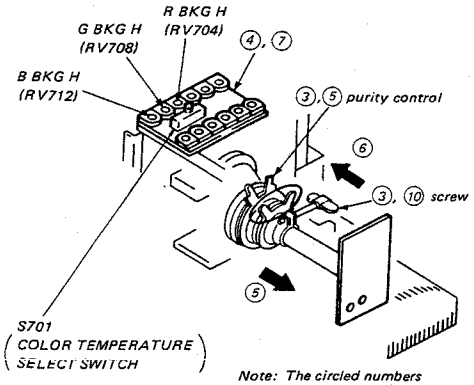


SECTION 3
SETUP ADJUSTMENTS

3-1. BEAM LANDING

Landing Adjustment In the case of a 6,500°K color temperature, the number of VRs to be adjusted will differ.

(1) Turn on set power supply and receive and all-white signal.
(2) Evenly degauss the entire screen.
(3) Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 1-1.
(4) Set BKG volume RV708 (G) to maximum and set RV712 (B) and RV704 (R) to minimum.
(5) Move the deflection yoke back, and adjust the purity control so that (G) is in the center and (R) and (B) are at the sides, evenly. (Fig. 1-2)
(6) Move the deflection yoke forward so that the entire screen is G.
* If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
(7) Substitute (R), then (B) for (G) in step (4) and check landing.
(8) Rotate (R), (G) and (B) once each and check landing.
(9) When landing is not right, adjust the purity control and use magnets as shown in Fig. 1-3, then repeat steps (7) and (8).
(10) When a magnet is used, be sure to perform step (2), and tighten deflection yoke mounting screw loosely.



Note: The circled numbers (③–⑦ and ⑩) shown above steps.

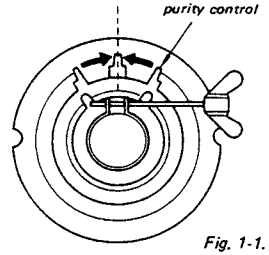


Fig. 1-1.

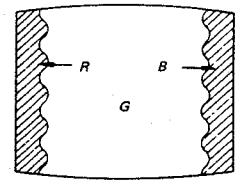


Fig. 1-2.

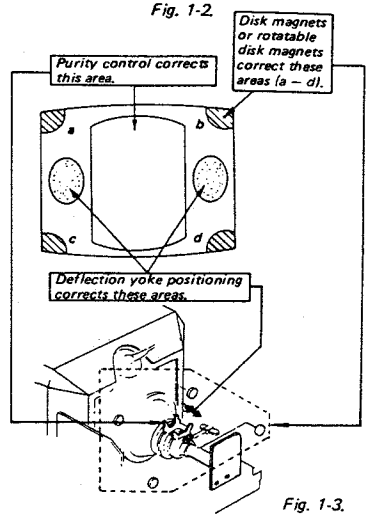
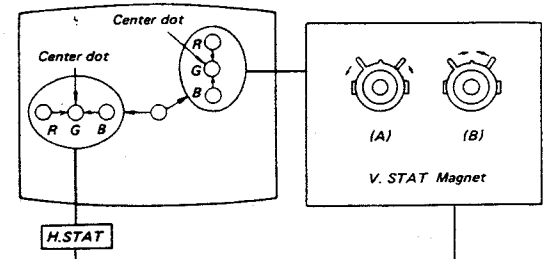


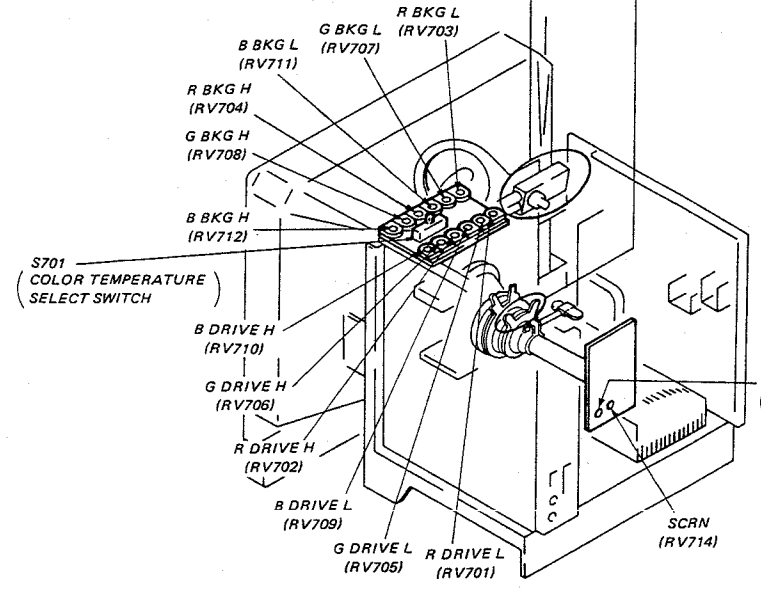
Fig. 1-3.

3-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.



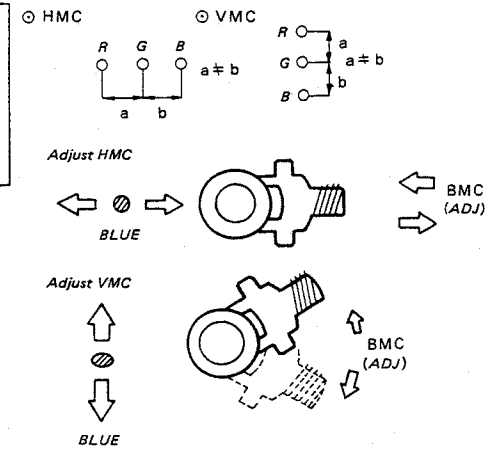


(1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet to correct insufficient H. static convergence.
Rotate BMC magnet to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.



3-3. FOCUS(RV713)

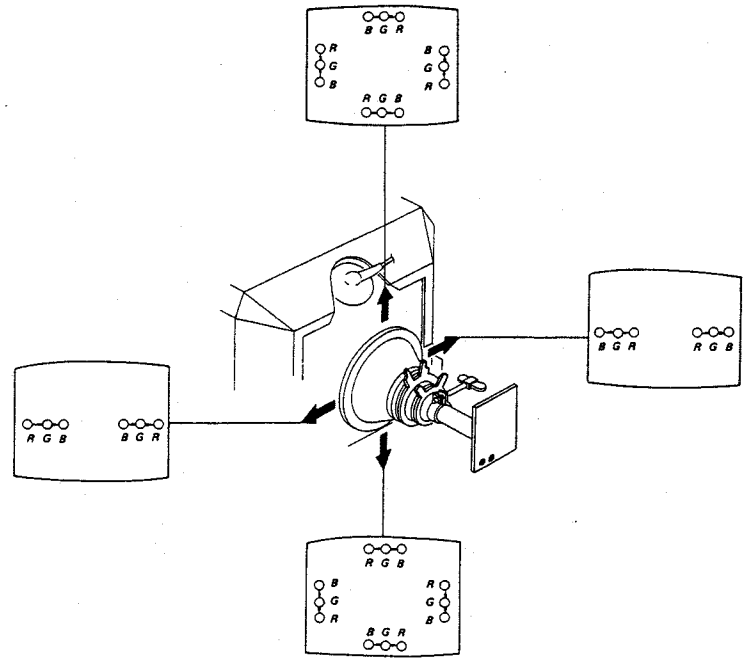
(1) Feed in monoscope signal, (PICTURE: 80%, BRIGHT: 50%)
(2) Adjust RV713 for best Focus.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



3-4. WHITE BALANCE

[For 9,300° K Color Temperature:]

(1) Receive a totally white signal from the pattern generator.

(2) Set BRIGHT at 50%, PICTURE at 80%, the various BKG VRs (RV704, 708, and 712) at 50%, and the various DRIVE VRs H (RV702, 706, and 710) at 80%.

(3) Turn all the other BKG VRs than the one for the color that started glowing first, and adjust the white balance at cut-off.

(4) Adjust the high light side white balance with drive VRs.

(5) By turning other drive VRs than the one for the color glowing the brightest of all, adjust the white balance. Repeat operating steps (3) and (4).

[For 6,500° K Color Temperature:]

(1) By turning BKG VRs (RV703, 707, and 711) and drive VRs (RV701, 705, and 709), make the same adjustment as in the 9,300° K color temperature mode.

* *After white balance adjustment, set the black level to screen (picture frame) with RV109.*

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. D BOARD ADJUSTMENTS

Horizontal Oscillator Frequency Adjustment

(1) Receive a monoscope signal.
(2) Set PIC VR at 80% and BRT VR at 50%, and connect for an external sync.
(3) Ground the Q502 base.
(4) Turn H FREQ VR (RV504), and adjust for the image to stop flowing.

Horizontal Deflection Block Adjustment

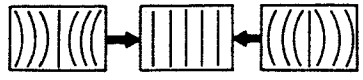
(1) Receive a monoscope signal.
(2) Set BRIGHT at 80% and BRIGHT at 50%.
(3) Turn H PHASE VR (RV505), verify that the H center will shift accordingly, and turn the VR to the extreme clockwise position.
(4) Turn H CENT VR (RV506), and verify that the H center will shift accordingly.
(5) Turn the HLC (L505) core for the picture size to be maximized.
(6) Adjust H SIZE VR (RV801) for the H size at screen center to be made 16 frames.

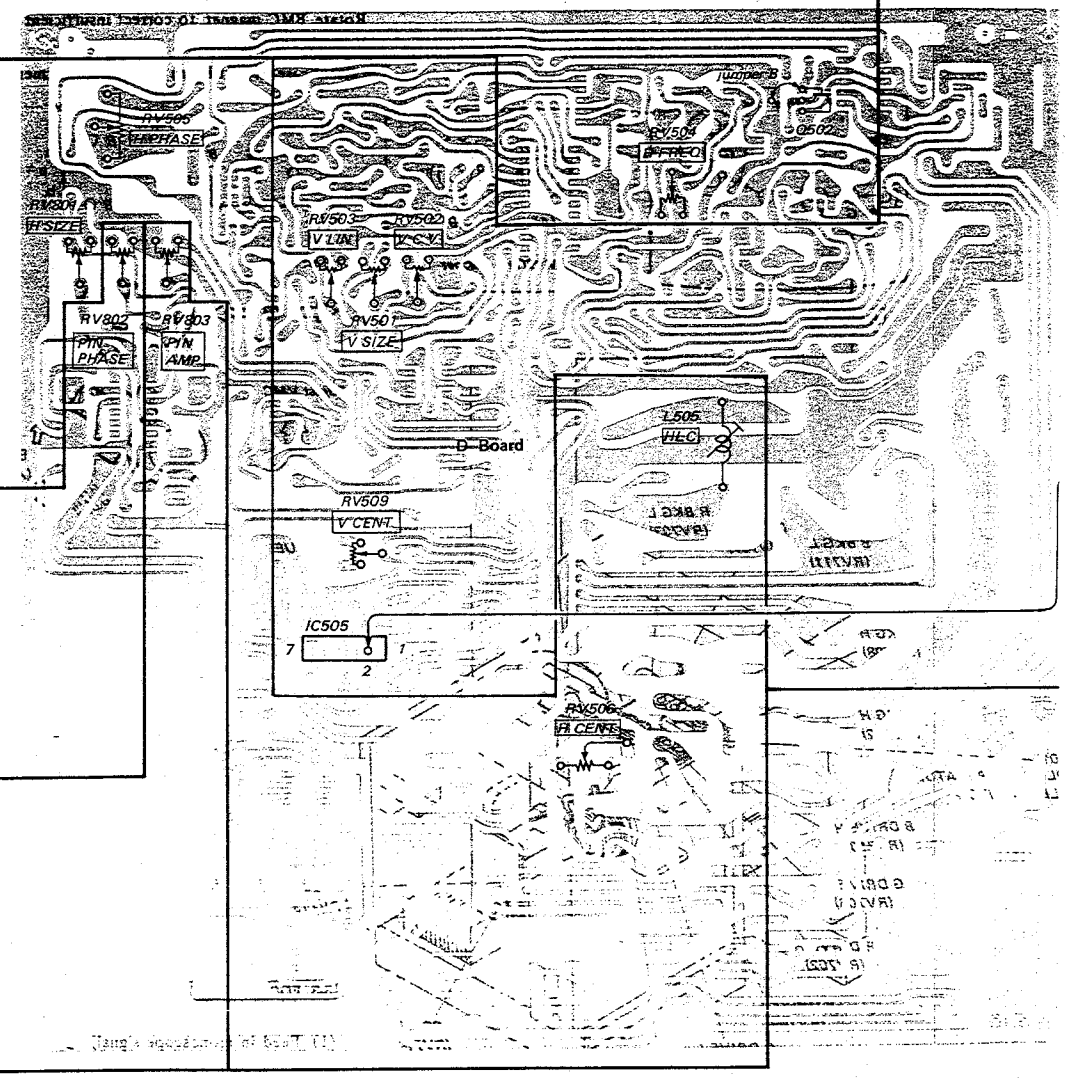
PIN.PHASE ADJUSTMENT

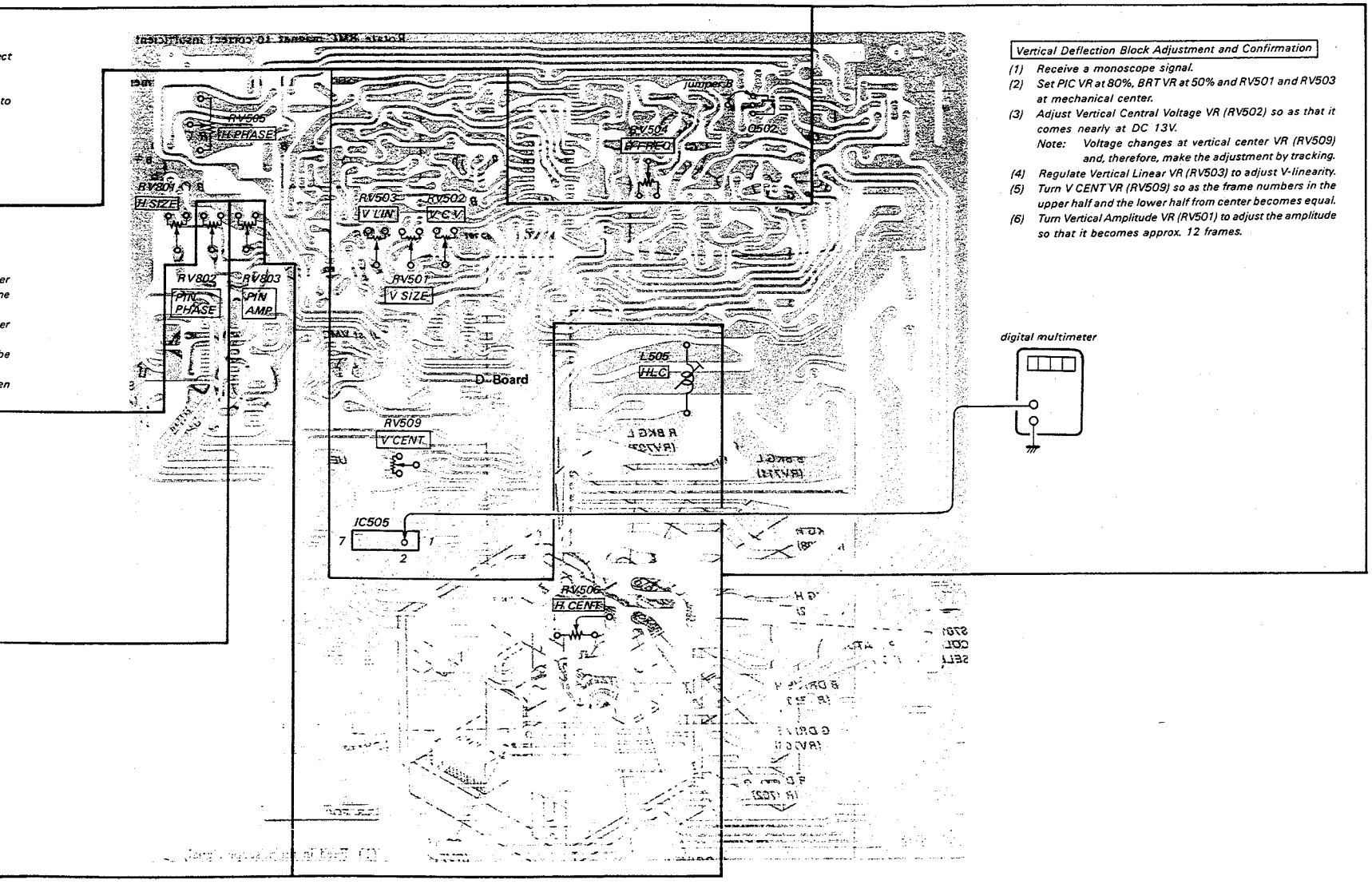
Adjust RV802 to make vertical lines straight as shown.

PIN AMP ADJUSTMENT

Adjust RV803 to make vertical lines straight as shown.







Vertical Deflection Block Adjustment and Confirmation

(1) Receive a monoscope signal.
(2) Set PIC VR at 80%, BRT VR at 50% and RV501 and RV503 at mechanical center.
(3) Adjust Vertical Central Voltage VR (RV502) so as that it comes nearly at DC 13V.
Note: Voltage changes at vertical center VR (RV509) and, therefore, make the adjustment by tracking.
(4) Regulate Vertical Linear VR (RV503) to adjust V-linearity.
(5) Turn V CENT VR (RV509) so as the frame numbers in the upper half and the lower half from center becomes equal.
(6) Turn Vertical Amplitude VR (RV501) to adjust the amplitude so that it becomes approx. 12 frames.

4-2. B BOARD ADJUSTMENTS

ANTI-PAL, LINE CRAWLING Adjustment

(1) Anti-PAL Adjustment
1) Input a special color bar.
2) PICTURE 80%
COLOR 50%
BRT 50%
3) Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If there is, adjust to remove the anti-PAL color at both sides while tracking with RV103 (HUE CENT) and RV110 (DELAY ADJ).

(2) Line Crawling Adjustment
1) Input a PAL color bar.
2) Adjust T104 (DAT) for minimum line crawing.
3) Confirm the anti-PAL adjustment in (1), and repeat (2) and (1) if necessary.

APC Adjustment

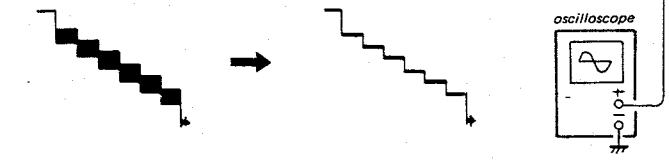
(1) 4.43 (APC-2) Adjustment
1) Input a PAL color bar.
2) Connect a 100kΩ resistor between RV106 pin ② and ground. (Killer circuit goes off.)
3) Connect IC104 pin ② to +B via the 2.2kΩ resistor to get 4.43 mode.
4) Ground IC103 pin ⑯ with a 10μ/16V chemical capacitor and remove color sync.
5) Adjust RV105 (APC-2) to get color sync.

(2) 3.58 (APC-1) Adjustment
1) Input a NTSC color bar.
2) Connect a 100kΩ resistor between RV106 pin ② and ground. (Killer circuit goes off.)
3) Ground IC103 pin ⑯ with a 10μ/16V chemical capacitor and remove color sync.
4) Ground Q139 base momentarily to get 3.58 mode.
5) Adjust RV104 (APC-1) to get color sync.

CHROMA TRAP Adjustment

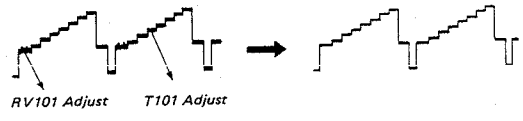
(1) 4.43 Trap Adjustment
1) Input a PAL color bar.
2) Observe IC103 pin ㉘ waveform on the oscilloscope and adjust T103 for minimum chrome component.

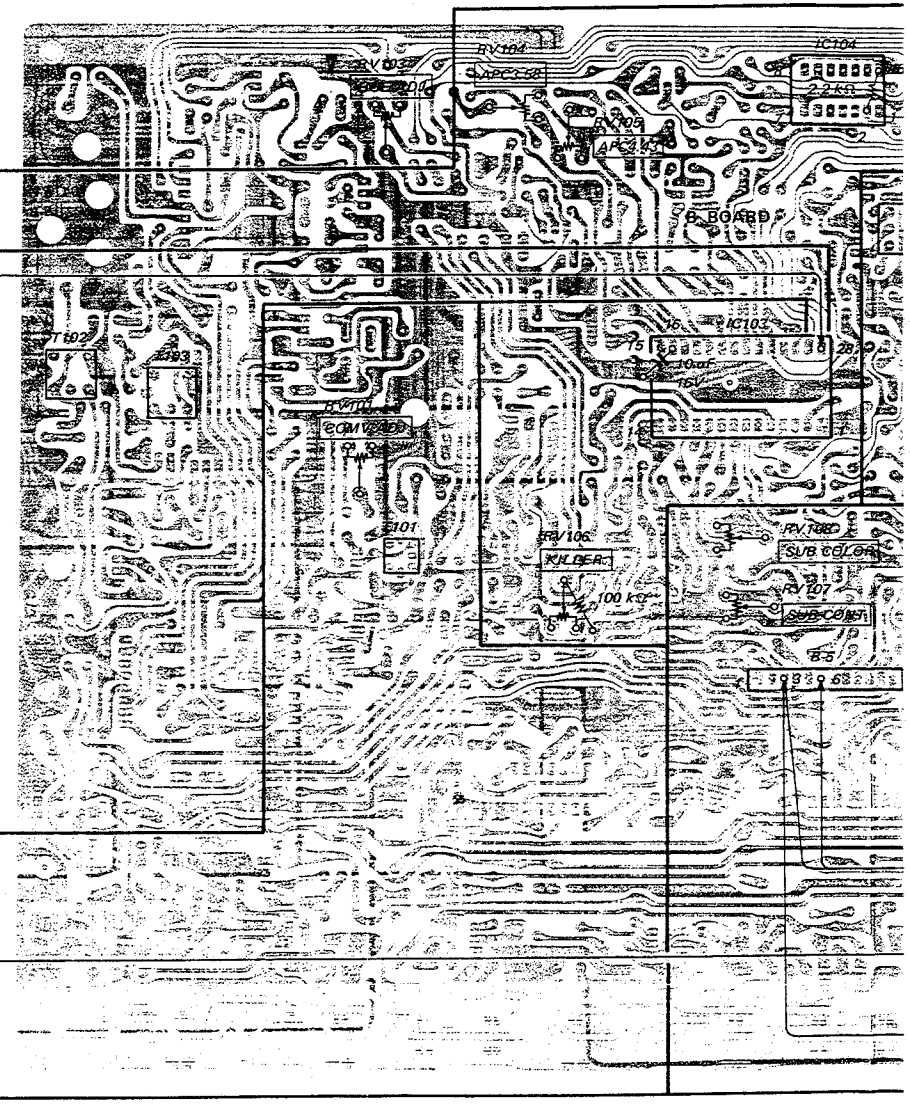
(2) SECAM Trap Adjustment
1) Input a SECAM color bar.
2) Observe IC103 pin ㉘ waveform on the oscilloscope and adjust T102 for minimum chrome component.

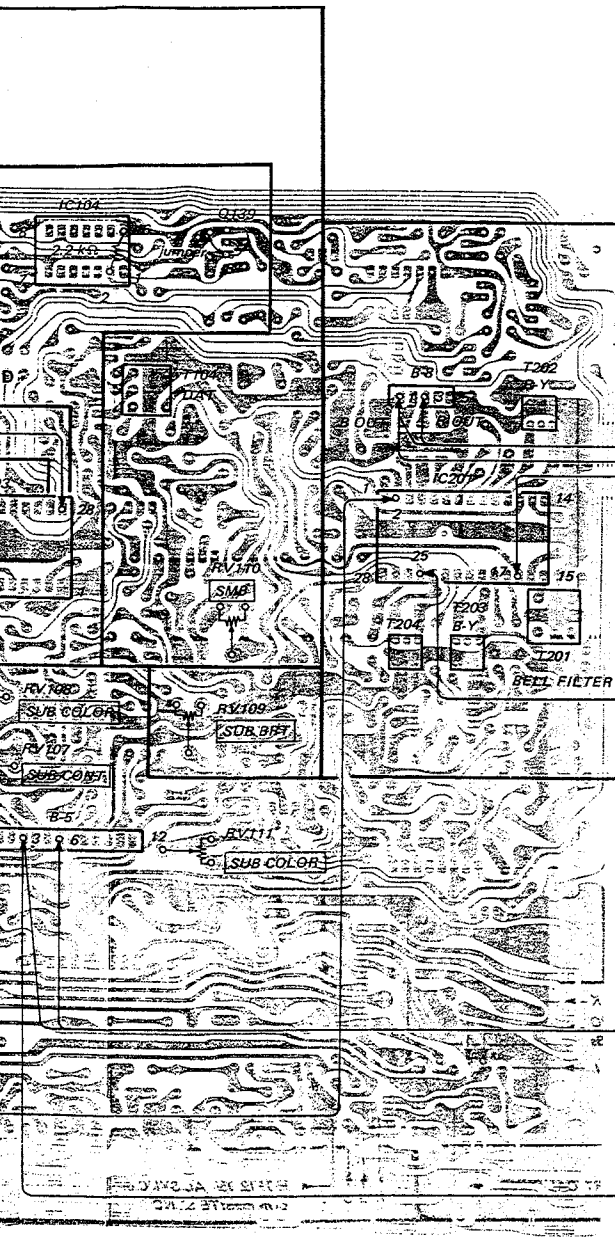


COMB FILTER Adjustment

(1) 1H Delay Adjustment
1) Input a NTSC color bar.
2) Observe the IC201 Pin ② waveform on the oscilloscope, and adjust so that the chroma component is minimum while tracking with RV101 and T101.







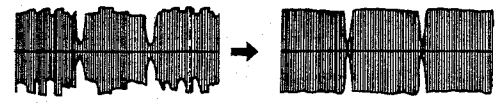
SECAM Adjustment

(1) Bell Filter Adjustment

1) Input a SECAM color bar.

2) Observe IC201 pin ⑰ waveform and adjust T201 (bell filter) so that the waveform level is uniform.

oscilloscope



(2) ID Adjustment (Intermodulation distortion)

1) Input a SECAM color bar.

2) Connect a digital voltmeter between IC201 pin ㉕ and ground, and adjust T204 so that the digital voltmeter reading is maximum.

digital multimeter

(Adjust for variance from the peak value to be at 0V in the core outserting direction, and within a 0.02V range in the core inserting direction.)

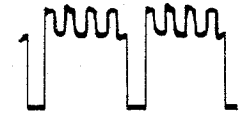
(3) Color Balance Adjustment

1) Input a SECAM color bar.

2) PICTURE 80%
COLOR 50%
BRT 50%

3) Observe B-8 connector pin ① (B Out) waveform on the oscilloscope and adjust T203 (B-Y) so that the black portion of the color bar is the same level as the pedestal.

oscilloscope



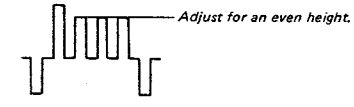
4) Observe B-8 connector pin ③ (R Out) waveform on the oscilloscope and adjust T202 (R-Y) so that the black portion of the color bar is the same level as the pedestal.

Sub-Color Adjustment

(1) Apply 10.0 ± 0.05V to pin ③ of connector B-5.
(2) Apply 5.8 ± 0.05V to pin ⑥ of connector B-5.
(3) Input SECAM color bars.
(4) Adjust RV111 for the waveform at connector B-8 ① (B Out) to become as illustrated.
(5) Apply 5.9 ± 0.05V to pin ⑥ of connector B-5.
(6) Receive PAL color bars.
(7) Adjust RV108 for the waveform at connector B-8 ① (B Out) to become as illustrated.

oscilloscope

regulated-dc power supply



SUB CONTRAST Adjustment

1) Input a monoscope signal.

2) PICTURE: maximum (turned fully clockwise)

3) Observe B-5 connector pin ③ (B out) on the oscilloscope and adjust the sub contrast control (RV107). So that the signal component is 2.5 Vp-p.

oscilloscope

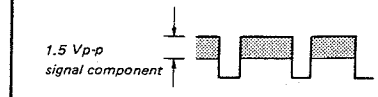
4-3. Q BOARD ADJUSTMENTS

Superimpose Operation Check

(1) Signal input setting is the same as for Overall Check (1)-(3) on page 28.
(2) Input selection: CMPTR (Q-7 ⑤:ground level, ② ③ ④: open)
(3) VIDEO SELECT
With CN407 ⑩ at ground level, check that Q-4 ②, ③, ④ (BGR) are LINE A signals.
(Video select: LINE A)
(4) AUDIO SELECT
1) CN407 ② ground level, AUDIO SELECT: LINE A.
2) Check that Q-2 ④ (AUDIO) becomes LINE A signal.
(5) SYNC SELECT
1) CN407 ⑭: ground level (Sync select: LINE A)
2) Check that Q-1 ① (SYNC OUT) becomes LINE A signal.
(INT SYNC mode: LINE A composite video, EXT SYNC mode: external sync signal are output.)
(6) Superimpose Operation
Apply a BLK signal to CN407 ⑫ and check that the COMPTR picture is superimposed on the LINE A picture.
(CN407 ⑩, ②, ④ (VIDEO, AUDIO, SYNC SELECT) are open, COMPTR is selected.)

COMPTR (3 Bit TTL) Check

(* for normal 8 color display microputers)
(1) Apply the following signals to CN407.
1) CN407 ④:B, ⑤:G, ⑥:R (R, G, B each TTL compatible positive polarity)
2) CN407 ③:horizontal sync signal, ⑪:vertical sync signal
(Both horizontal and vertical TTL compatible neg. polarity)
㉕ ground level (I not used)
⑨ ground level (LEV-SEC TTL)
⑦ ground level (*IBM-ID other than IBM (3 bit))
(2) Q-7 ⑤ ground level (*Select COMPTR)
(3) Check Q-4 ②, ③, ④, (B, G, R) output. (Waveform is the same as 4 CMPTR analog.)



(4) Check that Q-5 ① SYNC OUT is about 2 Vp-p negative polarity.

Power Supply Operation Check

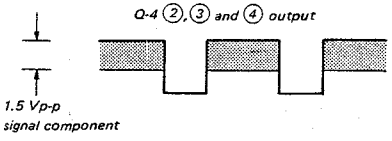
(1) Connect the Q-3 connector and apply the following voltages.
Q-3 connector
(1) +8V
(2) +15V
(3) common ground
(2) Check the voltage at the following points.
F401: 5 ± 0.25
CN407 ⑧: 5 ± 0.25
F403 ⑫: ± 0.6
CN407 ⑦: 12 ± 0.6
Q4 ①: 12 ± 0.6

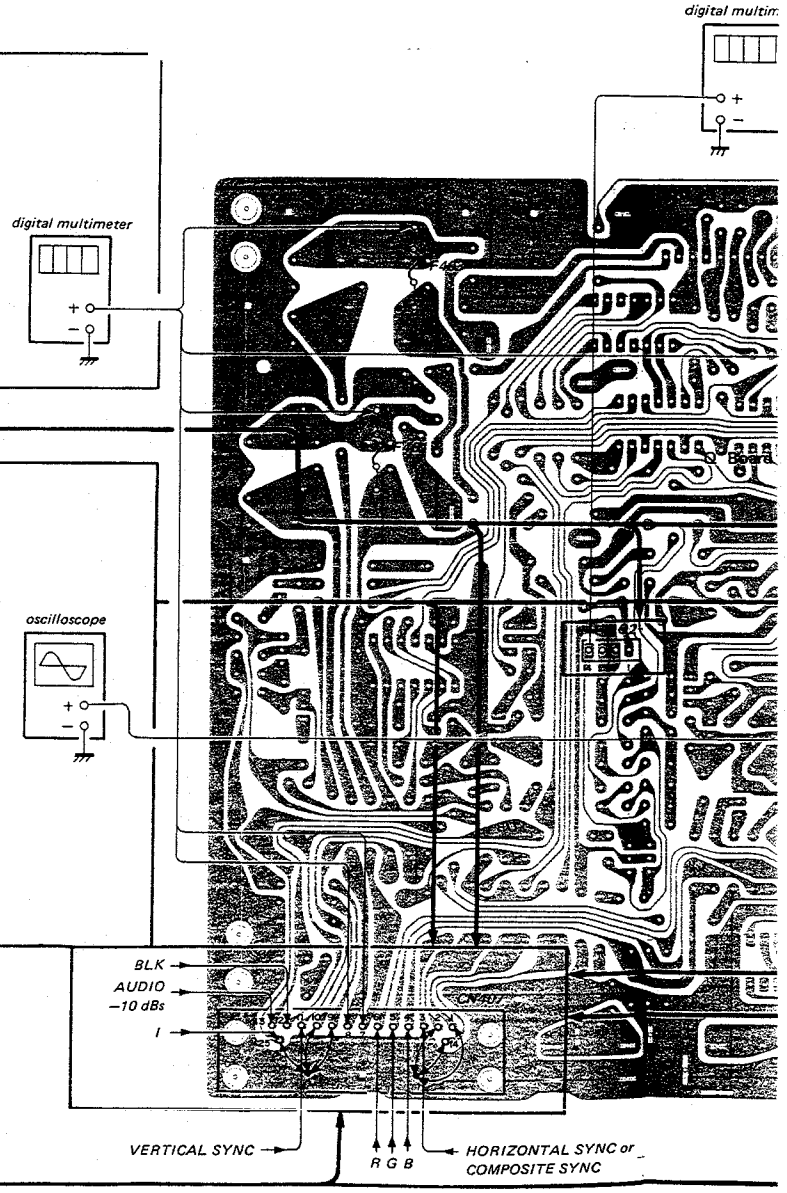
CMPTR (ANALOG) Check

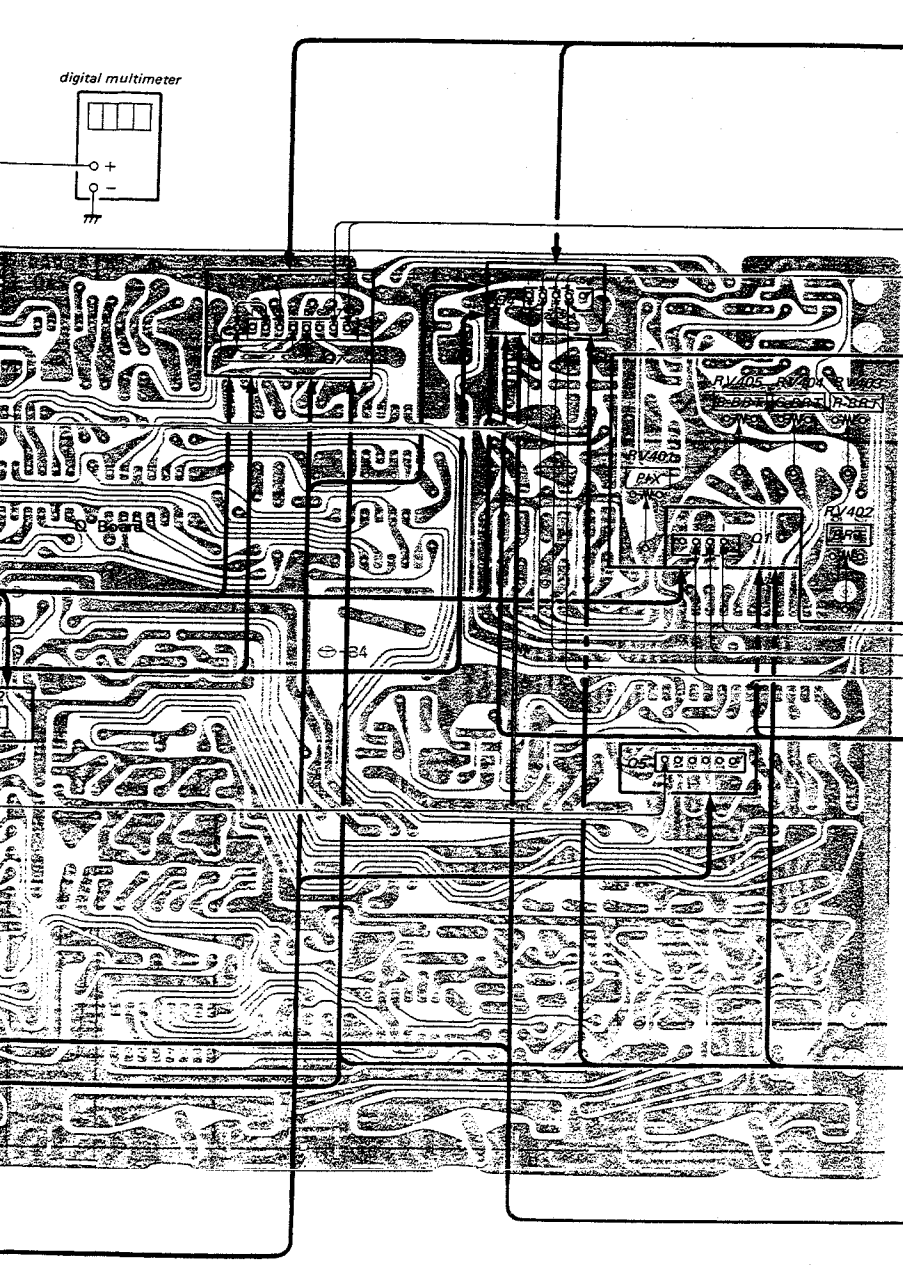
(* for microcomputers with analog output such as SMC-70)
(1) Apply the following signals to CN407.
- CN407 ③: composite sync signal (COMP SYNC 1 Vp-p/75Ω negative polarity)
- CN407 ④:B, ⑤:G, ⑥:R (R, G, B each 0.7 Vp-p/75Ω positive polarity)

(2) Apply the following voltages via Q-7 connector.
- Q-7 ⑤ (COMP selection): ground, Q-7 ②, ③, ④, ⑥; open

(3) Check Q-4 ②, ③, ④, (B, G, R) outputs as shown below.
(4) Check that Q-5 ① (SYNC OUT) level is about 2 Vp-p negative polarity.







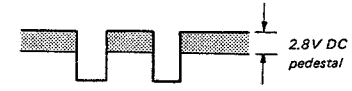
R, G, B System Operation Check and Preset

PICTURE: minimum
BRIGHT: Set at mechanical center

(1) Apply the following voltages via the Q-7 connector.
  (1) Q-7 ④ (RGB selection): ground level
  (2) Q-7 ⑦ (PIC): 4.0V DC
  (3) Q-7 ⑧ (BRT): 6.0V DC

(2) Connector input
Apply RGB signal to each of the following inputs:
CN401 : R
CN403 : G
CN405 : B

(3) BRT Adjustment
  1) Set G-BRT (RV404) at mechanical center.
  2) Adjust BRT (RV402) so that Q-4 connector ③ (G output) pedestal level is 2.8V DC.



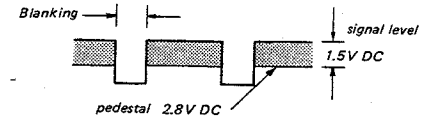
  3) Adjust B-BRT (RV405) in the same way for Q-4 connector ② (B output).
  4) Adjust R-BRT (RV403) in the same way for Q-4 connector ④ (R output)

(4) PIC Adjustment
PICTURE: maximum
- Q-7 connector ⑦ (PIC): 12.0V DC
- Adjust PIC (RV401) so that Q-4 connector ③ (G output) signal component is 2.5 Vp-p.
- Check that Q-4 connector ② (B output) and ④ (R output) are also 2.5 Vp-p.

COMPOSITE System Operation Check

BRIGHT: mechanical center
PICTURE: center

(1) Apply the signal shown to Q-1 connector.
(This level corresponds to the 8.8 output when 1 Vp-p composite input is applied to the B board.)



(2) Check that the input waveforms are equal at the following points.
  1) B:Q-1 connector ① Q4 connector ②
  2) G:Q-1 connector ② Q4 connector ③
  3) R:Q-1 connector ③ Q4 connector ④

Overall Operation Check

(1) Connect Q1, Q2, Q3, Q4, Q5 and Q7, and B, D and H boards.

(2) Apply video and audio signals to B board A, B VTR inputs.
Also, apply a composite sync signal to the external sync input.
(video input (composite) 1 Vp-p/75Ω audio input −10 dB external sync input 4 Vp-p/75Ω negative polarity)

(3) Q Board
  1) Apply these signals to R, G, B video and audio inputs. (video input (component RGB) 0.7 Vp-p/75Ω audio input −10 dBs)
  2) Apply input signals to CMPTR connector.
  CN407 ③ composite sync signal 1 Vp-p/75Ω ④, ⑤, ⑥, B, G, R −0.7 Vp-p/75Ω
  CN407 ⑬ AUDIO −10 dBs

(4) LINE A Check
  1) Input selection is LINE A, and sync selection is INT SYNC. (Q-7 ②, ③, ④, ⑤, ⑦ open)
  2) Check that LINE A decoded RGB signal is being output at Q-4 ②, ③, ④, B, G, R.
  3) Check that Q-2 ④ AUDIO is LINE A. (Level drops about −16 dBs (about 6 dB from connector input.))
  4) Check that there is LINE A video at Q-1 ① (SYNC OUT) (Level is 2 Vp-p)
  5) Change sync selection to EXT SYNC. Check that at this time Q-1 ① changes to composite sync signal from external sync connector.
  (Q-7 ⑥ is ground level, output level about 2 Vp-p, negative polarity)

(5) LINE B Check Select LINE B. (Q-7 ② ground level ③, ④, ⑤ open) Repeat steps 2)-5) for LINE A.

(6) VTR Check Select VTR. (Q-7 ③ ground level ②, ④, ⑤ open) Repeat steps 2)-5) for LINE A.

(7) RGB Check
  1) Make input selection RGB. Sync selection is internal sync. (Q-7 ④ ground level, ②, ③, ⑥ open)
  2) Check that signals from R, G, B are coming out on Q-4 ②, ③, ④ (R, G, B).
  3) Q-2 ④ (AUDIO) signal should be from RGB.
  4) Check that there is a composite sync signal from external sync connector at Q-1 ① (SYNC OUT).
  5) Make sync selection EXT SYNC and make sure that Q-1 ① output does not change. (In RGB mode, external sync is selected regardless of INT/EXT.)

(8) COMPTR Check
  1) Input selection: COMPTR, Sync selection: INT SYNC (Q-7 ⑤ ground level ②, ③, ④ open)
  2) Check Q-4 ②, ③, ④ (B, G, R) and check Q-2 ④ (AUDIO).
  3) Check that Q-1 ① (SYNC OUT) is the signal from CN407 ③.
  4) Check that Q-1 ① does not change when changing sync selection from INT/EXT.

CMPTR (IBM) Check

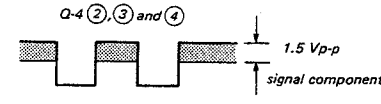
(*IBM 5150 personal computer)

(1) Apply the following signals to CN407.
CN407 ㉕:I ④:B ⑤:G ⑥:R
All TTL compatible positive polarity
③:H SYNC ⑪: V SYNC
TTL compatible positive polarity
CN407 ⑨:ground level (LEV-SEC TTL)

(2) Q-7 ⑤:ground level (CMPTR select)

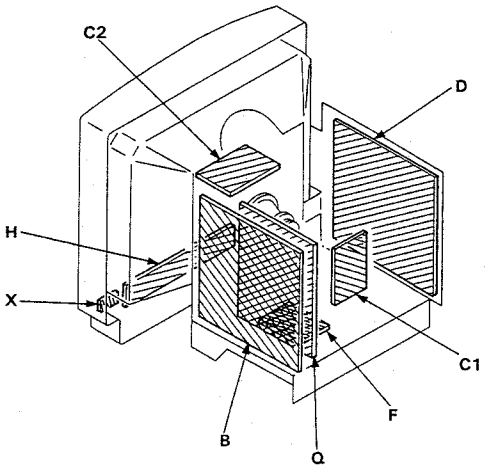
(3) Check Q-4 ②, ③, ④ (B, G, R) outputs. (Waveform is the same as 4 CMPTR analog.)

(4) Check that Q-5 ① (SYNC OUT) is about 2 Vp-p negative polarity.

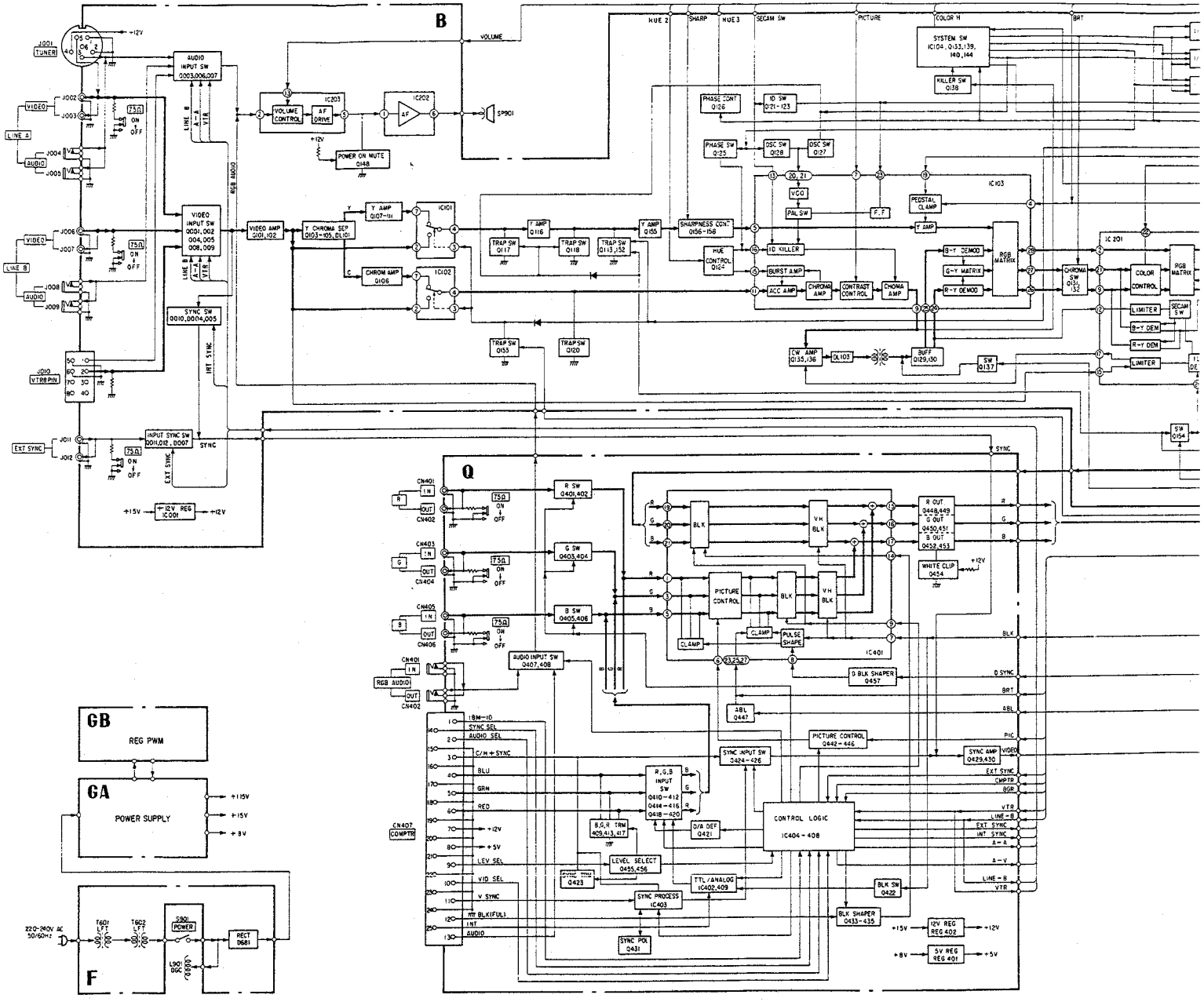


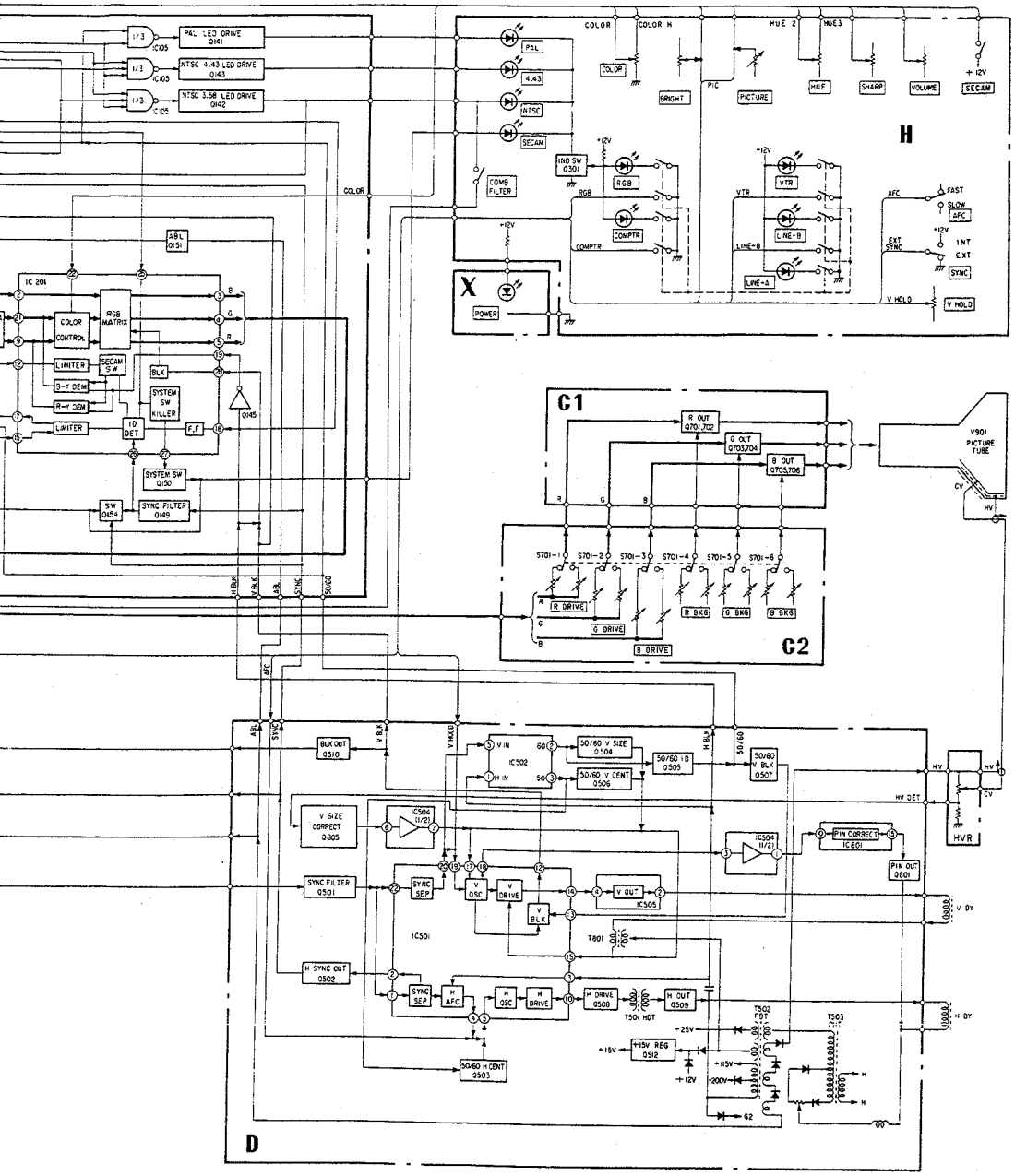
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



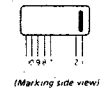
5-2. BLOCK DIAGRAM



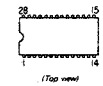


5-3. SEMICONDUCTORS

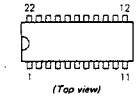
μPC1241H



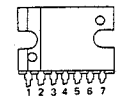
μPC1364C2
μPC1365C
CX22019



μPC1377C

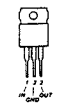


μPC1378H-L

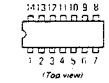


μPC4558C
CX7916

μPC7805H
μPC7812H
μPC78M12H

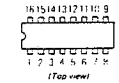


CX095E
SN74LS00N
SN74LS04N
SN74LS08N
SN74LS09N
SN74LS136N
SN74LS20N
TC4023BP
TC4024BP



CX20061

SN74LS138N
TDA1082



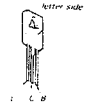
2SA1026

2SA1048
2SA1115
2SC2458
2SC2603
DTA124ES

2SA1175
2SC2785

2SA733
2SA844
2SC1363
2SC1815
2SC945

2SC2611
2SC2688



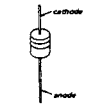
2SD1134

2SD1398

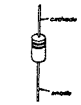
2SD774

2SK107-3

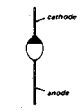
1SS119
1SS133
1SS148



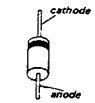
EQB01-22
RH1A
RH1Z
S1B01-02



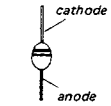
ERC26-15S



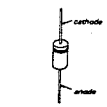
ERD28-08S
RD3.0E-B1
RD3.9E-N1
RD4.3E-B1
RD4.7E-B2
RD6.2E-B1
RD7.5EN3
RD8.2E-N1
RD8.2E-N2



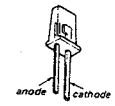
GH3F
U05G



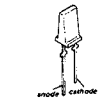
GP08D



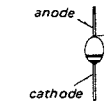
SG232D



SY432D



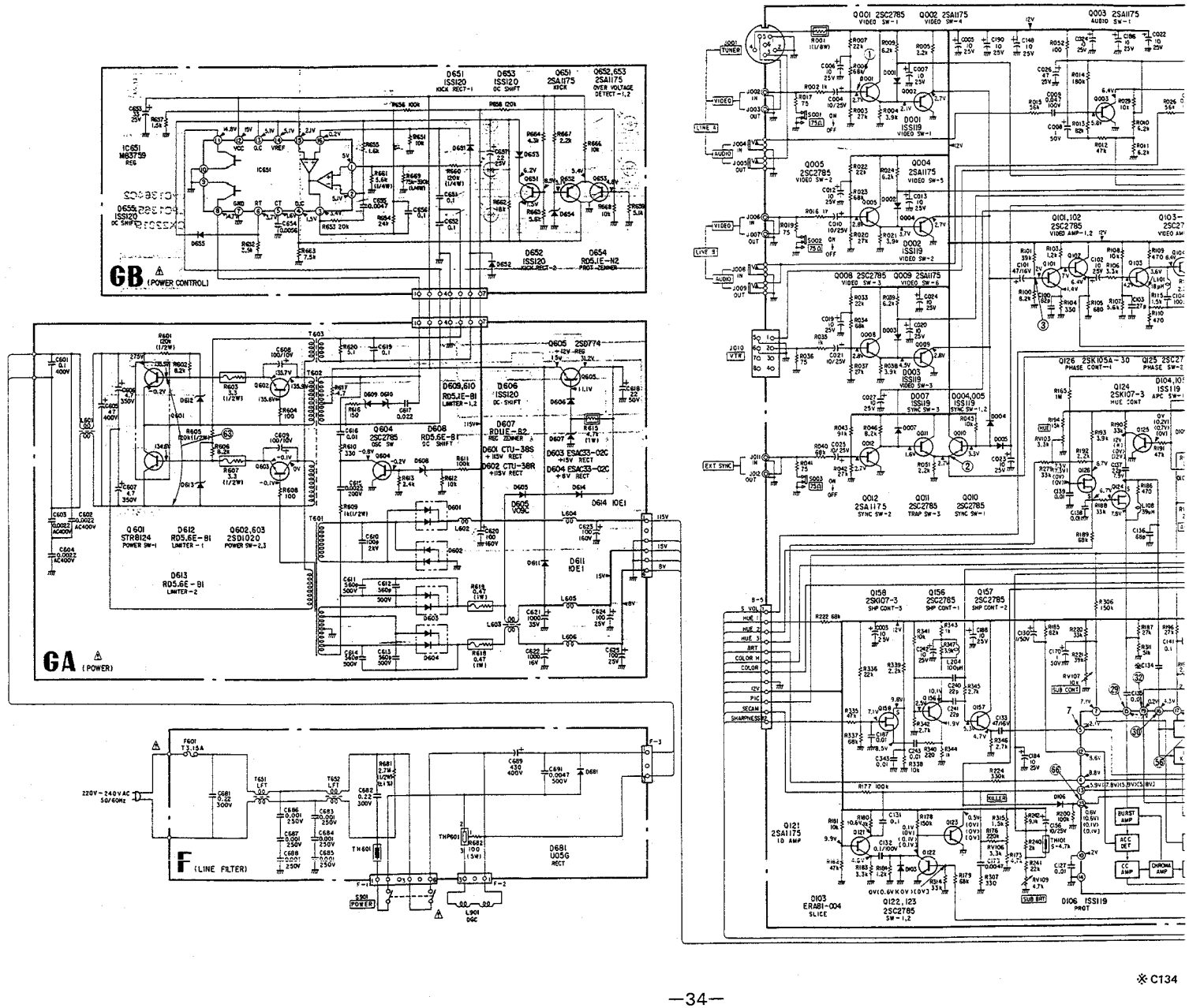
V19C
V19E
V30N

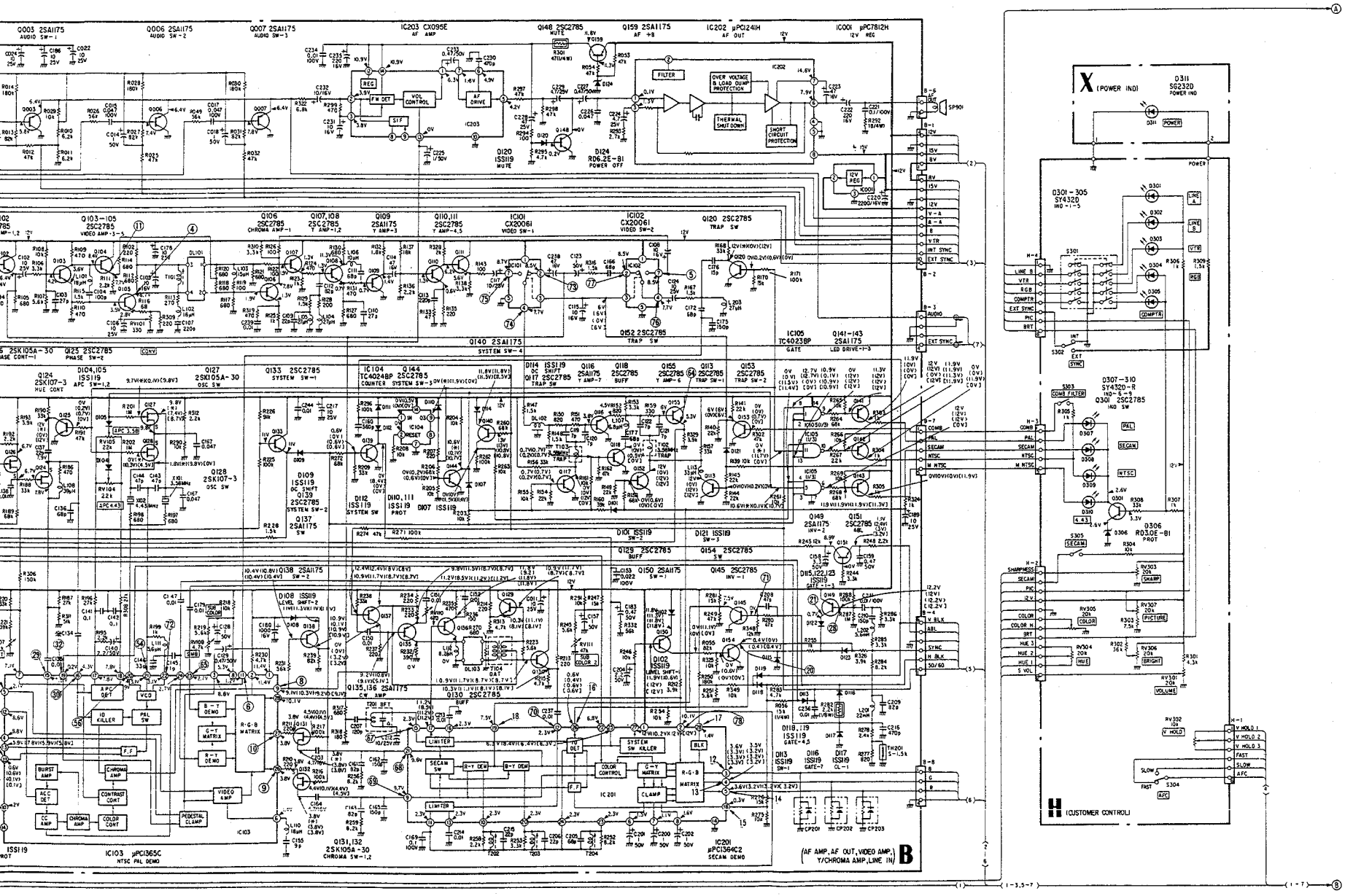


5-4. SCHEMATIC DIAGRAM

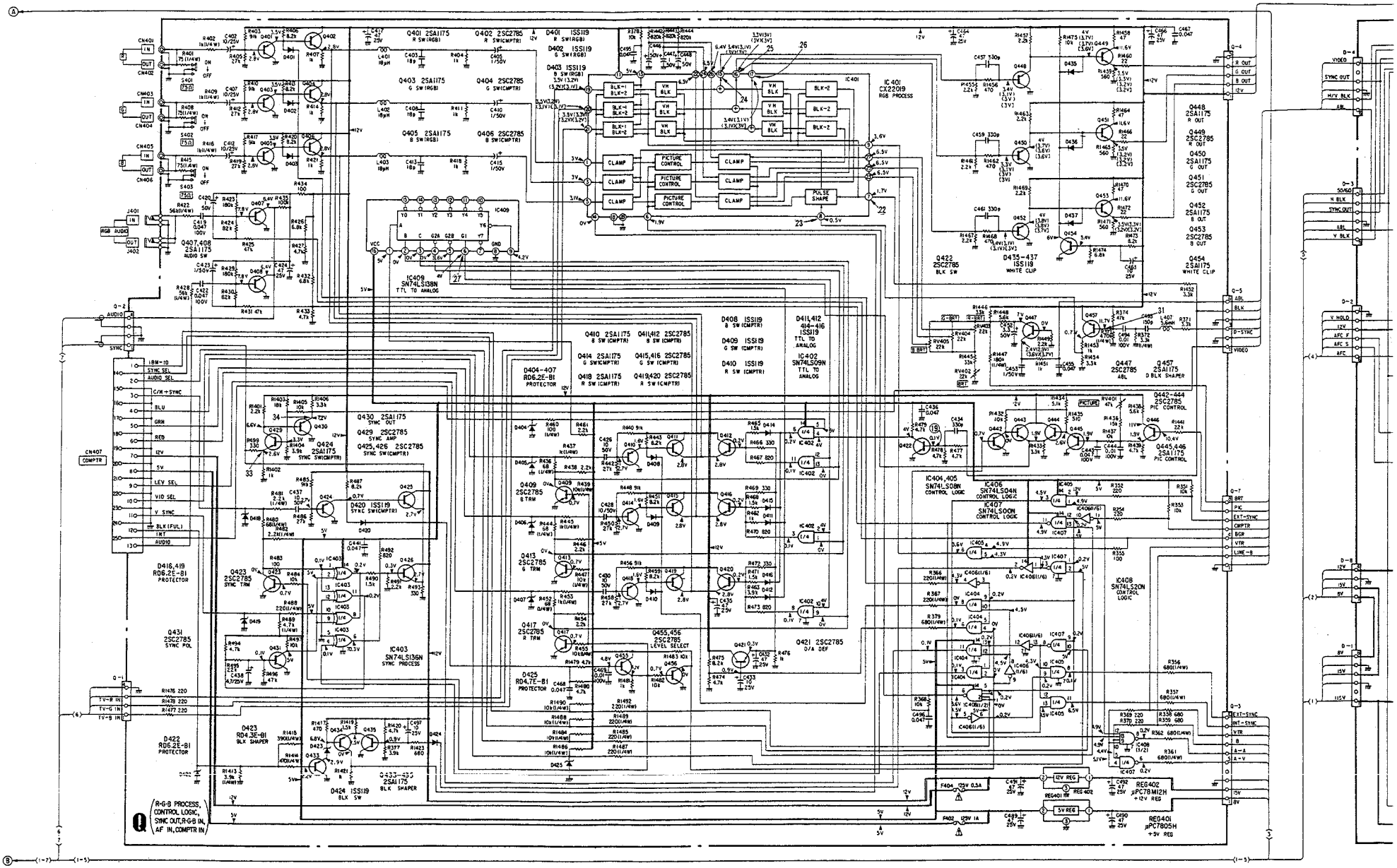
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

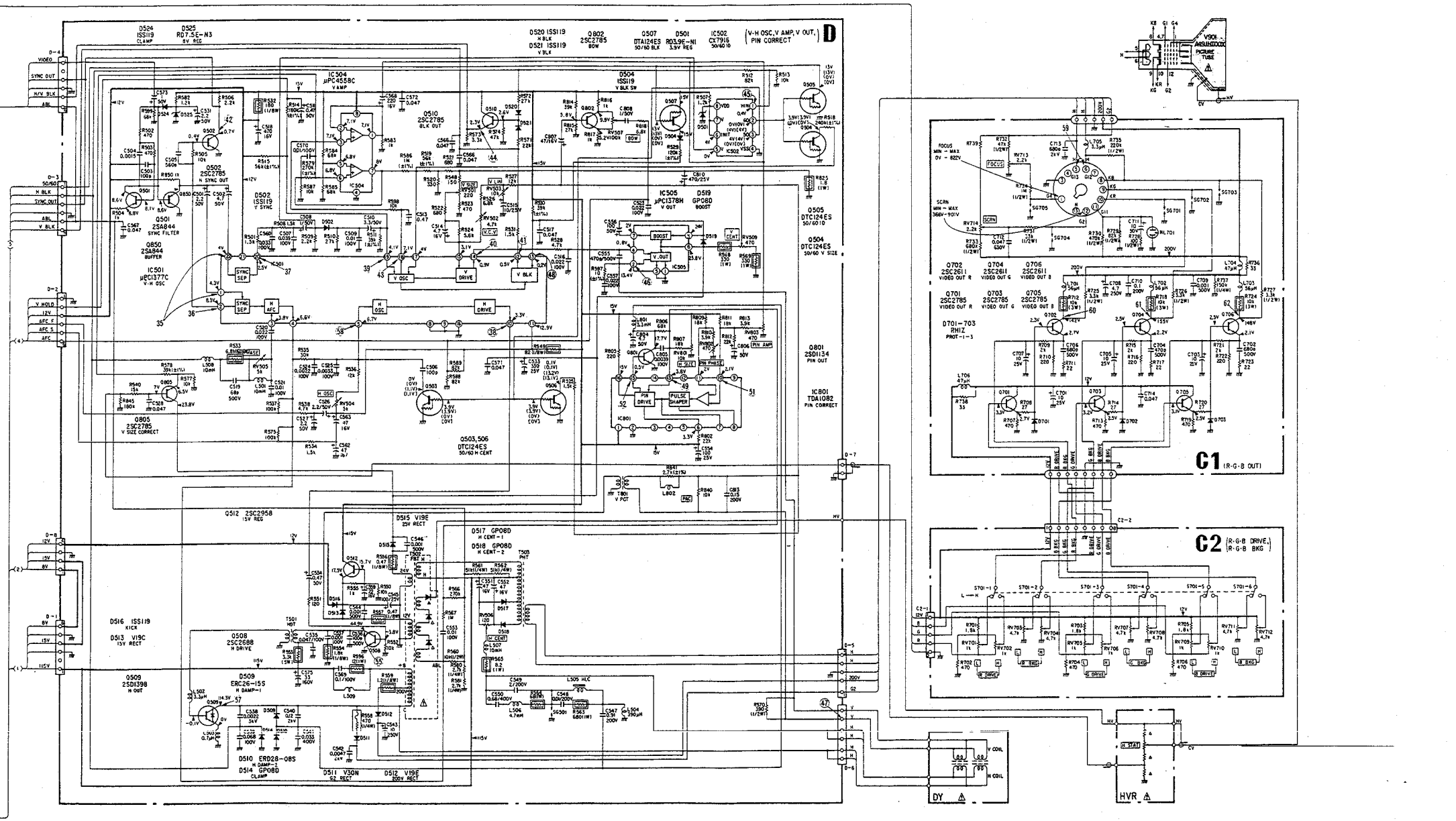
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ
- Notice that the following boards have not a resistance wattage of 1/6W.
  GA Board ..... 1/4W (as a reference)
- : nonflamable resistor.
- : fusible resistor
- △ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input to LINE A.
- Voltages are dc with respect to ground unless otherwise noted.
- The voltage of Q601 ~ Q603 is a reference value between emitter of Q601.
- Readings are taken with a 10MΩ digital multimeter.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- —— : B + bus.
- ①: The number indicates No. of a waveform diagram.
  For the waveform diagram, refer to page 50.
- no mark : PAL
  ( ) : SECAM
  < > : NTSC 3.58
  [ ] : NTSC 4.43
  ✱: Not measurable.





※C134 Serial No. up to 204000 7P
Serial No. 204001 and later 47P


Q
R-G-B PROCESS, CONTROL LOGIC, SYNC OUT, R-G-B IN, AF IN, COMPTR IN
IC401 CX22019 RGB PROCESS
IC402 SN74LS09N TTL TO ANALOG
IC403 SN74LS136N SYNC PROCESS
IC404,405 SN74LS08N CONTROL LOGIC
IC406 SN74LS04N CONTROL LOGIC
IC407 SN74LS00N CONTROL LOGIC
IC408 SN74LS20N CONTROL LOGIC
IC409 SN74LS138N TTL TO ANALOG
REG402 μPC78M12H +12V REG
REG401 μPC7805H +5V REG
0401 ISS119 R SW(RGB)
0402 2SC2785 R SW(CMPTR)
0403 ISS119 G SW(RGB)
0404 2SC2785 G SW(CMPTR)
0405 2SA1175 B SW(RGB)
0406 2SC2785 B SW(CMPTR)
0407,408 2SA1175 AUDIO SW
0408 ISS119 B SW(CMPTR)
0409 ISS119 G SW(CMPTR)
0410 ISS119 R SW(CMPTR)
0411,412 414~416 ISS119 TTL TO ANALOG
0414 2SA1175 G SW(CMPTR)
0415,416 2SC2785 G SW(CMPTR)
0418 2SA1175 R SW(CMPTR)
0419,420 2SC2785 R SW(CMPTR)
0420 ISS119 SYNC SW(CMPTR)
0422 2SC2785 BLK SW
0423 2SC2785 SYNC TRM
0424 2SA1175 SYNC SW(CMPTR)
0425,426 2SC2785 SYNC SW(CMPTR)
0429 2SC2785 SYNC AMP
0430 2SA1175 SYNC OUT
0431 2SC2785 SYNC POL
0433~435 2SA1175 BLK SHAPER
0435~437 ISS119 WHITE CLIP
0442~444 2SC2785 PIC CONTROL
0445,446 2SA1175 PIC CONTROL
0447 2SC2785 ABL
0448 2SA1175 R OUT
0449 2SC2785 R OUT
0450 2SA1175 G OUT
0451 2SC2785 G OUT
0452 2SA1175 B OUT
0453 2SC2785 B OUT
0454 2SA1175 WHITE CLIP
0455,456 2SC2785 LEVEL SELECT
0457 2SA1175 D BLK SHAPER
D404-407 RD6.2E-B1 PROTECTOR
D416,419 RD6.2E-B1 PROTECTOR
D422 RD6.2E-B1 PROTECTOR
D423 RD4.3E-B1 BLK SHAPER
D425 RD4.7E-B1 PROTECTOR
0421 2SC2785 D/A DEF
CN401 CN402 CN403 CN404 CN405 CN406 CN407 CN408
J401 J402
F404 125V 0.5A
F402 125V 1A
AUDIO
SYNC
COMPTR
VIDEO
SYNC OUT
H/V BLK
ABL
BLK
D-SYNC
R OUT
G OUT
B OUT
12V
V HOLD
AFC F
AFC S
AFC
EXT-SYNC
INT-SYNC
VTR
8
A-B
A-V
15V
115V
PULSE SHAPE
CLAMP
PICTURE CONTROL
BLK-1 BLK-2
VH BLK
BLK-2


16
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31
D
C1 (R-G-B OUT)
C2 (R-G-B DRIVE, R-G-B BKG)
DY
HVR
V COIL
H COIL
H STAT
PICTURE TUBE
V901
IC504 μPC4558C V AMP
IC501 μPC1377C V-H OSC
IC505 μPC1378H V OUT
IC502 CX7916
IC801 TDA1082 PIN CORRECT
Q801 2SD1134 PIN OUT
Q850 2SA844 BUFFER
Q501 2SA844 SYNC FILTER
Q502 2SC2785 H SYNC OUT
Q503,506 DTC124ES 50/60 H CENT
Q504 DTC124ES 50/60 V SIZE
Q505 DTC124ES 50/60 10
Q805 2SC2785 V SIZE CORRECT
Q508 2SC2688 H DRIVE
Q509 2SD1398 H OUT
Q510 2SC2785 BLK OUT
Q512 2SC2958 15V REG
Q702 2SC2611 VIDEO OUT R
Q703 2SC2611 VIDEO OUT G
Q705 2SC2611 VIDEO OUT B
Q701 2SC2785 VIDEO OUT R
Q703 2SC2785 VIDEO OUT G
Q705 2SC2785 VIDEO OUT B
D701-703 RHIZ PROT-1-3
D510 ERD28-08S H DAMP-1
D514 GP08D CLAMP
D511 V30N S2 RECT
D512 V19E 200V RECT
D513 V19C 15V RECT
D515 V19E 25V RECT
D516 ISS119 KICK
D517 GP08D H CENT-1
D518 GP08D H CENT-2
D520 ISS119 H BLK
D521 ISS119 V BLK
D524 ISS119 CLAMP
D525 RD7.5E-N3 8V REG
D502 ISS119 V SYNC
D519 GP08D 900ST
D509 ERC26-15S H DAMP-1
IC502 CX7916 50/60 10
Q507 DTA124ES 50/60 BLK
Q501 RD3.9E-N1 3.9V REG
Q802 2SC2785 80W
D505 ISS119 V BLK SW
D504 ISS119 V BLK SW
D507 ISS119 V BLK SW
D501 ISS119 V BLK SW
D502 ISS119 V SYNC
D519 GP08D 900ST
D509 ERC26-15S H DAMP-1
D510 ERD28-08S H DAMP-1
D514 GP08D CLAMP
D511 V30N S2 RECT
D512 V19E 200V RECT
D513 V19C 15V RECT
D515 V19E 25V RECT
D516 ISS119 KICK
D517 GP08D H CENT-1
D518 GP08D H CENT-2
D520 ISS119 H BLK
D521 ISS119 V BLK
D524 ISS119 CLAMP
D525 RD7.5E-N3 8V REG
V-H OSC, V AMP, V OUT, PIN CORRECT
0-4
0-3 50/60
0-2
0-8
0-7
0-5
0-6
VIDEO
SYNC OUT
H/V BLK
ABL
V BLK
V HOLD
12V
AFC F
AFC S
AFC
15V
8V
115V
H BLK
SYNC SEP
V SYNC
V SEP
H SYNC
H AFC
V OSC
V DRIVE
V BLK
H OSC
H DRIVE
PIN DRIVE
PULSE SHAPER
BOOST
V OUT
V SIZE
V LIN
V S-C
V-C-V
PIN PHASE
PIN AMP
H SIZE
H CENT
FOCUS
SCRN
G1
G2
KB
KG
KR
HV
CV
200V
L-R
T501 HOT
T801 V POT
L802 PAC
L507 H CENT
L505 HLC
L506 4.7mH
L509
L502 3.3μH
L503 0.7μH
L504 390μH
L508 0.68μH
L801 5.6mH
L802
L803 10mH
L804 5.6mH
L805 10mH
L806 10mH
L807 10mH
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L811 10mH
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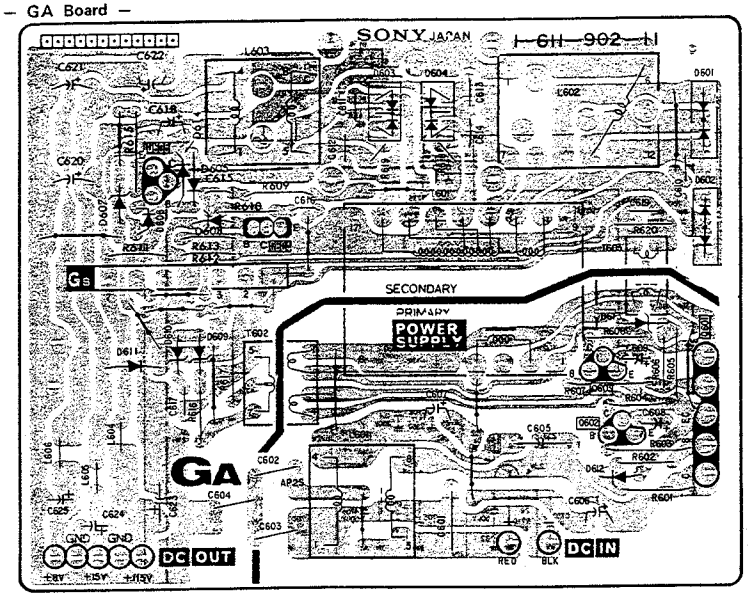
L999 10mH
L1000 10mH

– GA Board –



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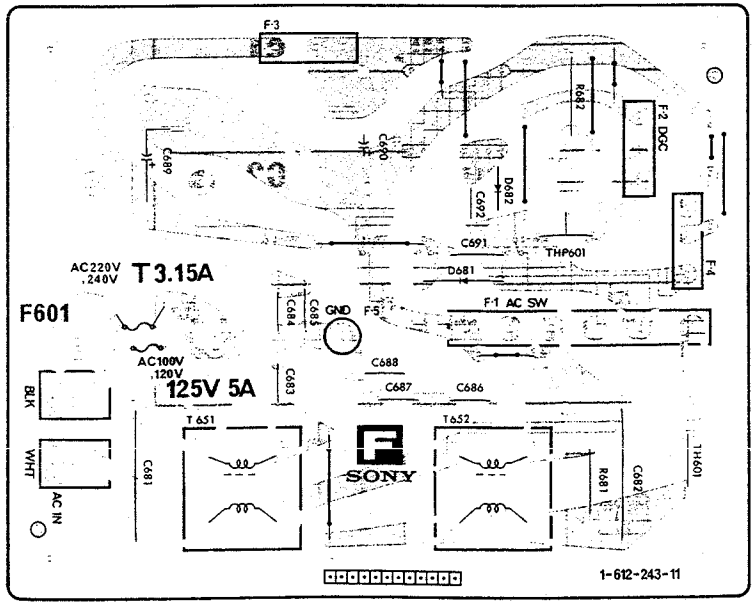

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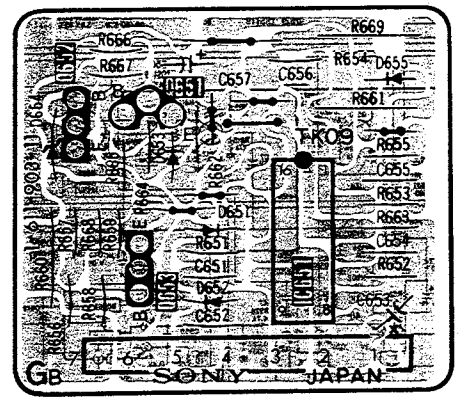
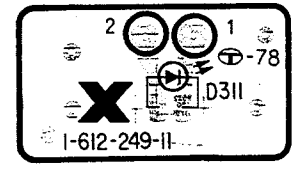
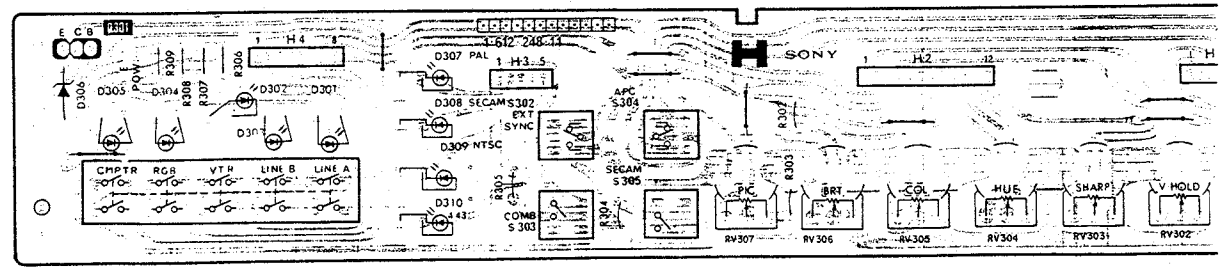


– X Board –



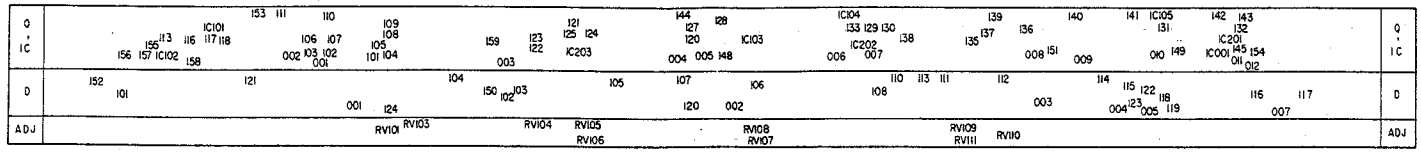
– H Board –

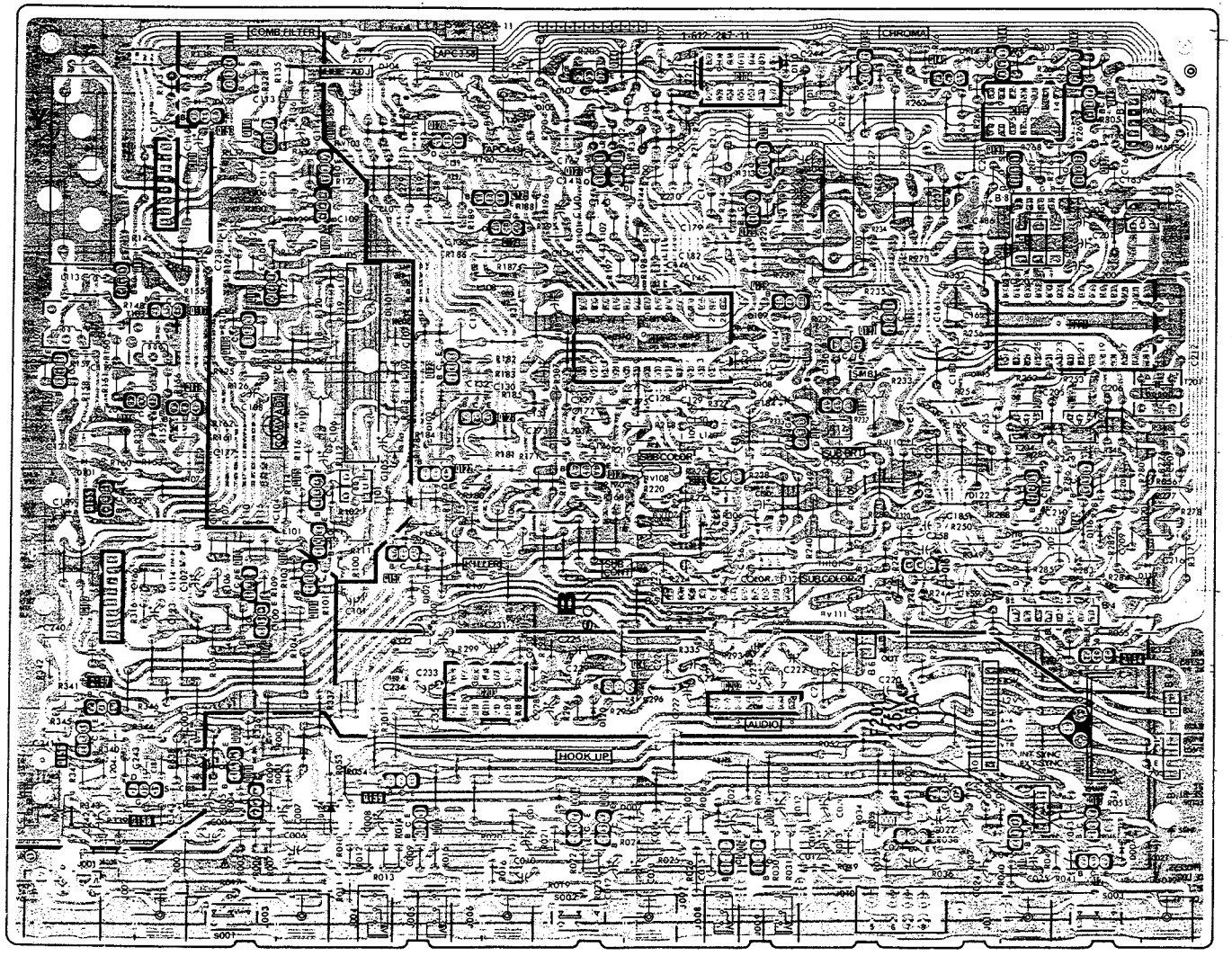


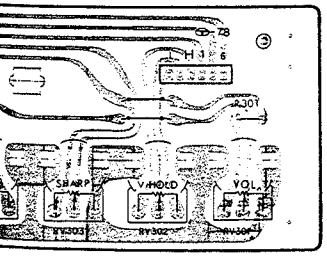
(CUSTOMER CONTROL) **B** (AF AMP, AF OUT, VIDEO AMP, Y/CHROMA AMP, LINE IN)

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

– B Board –



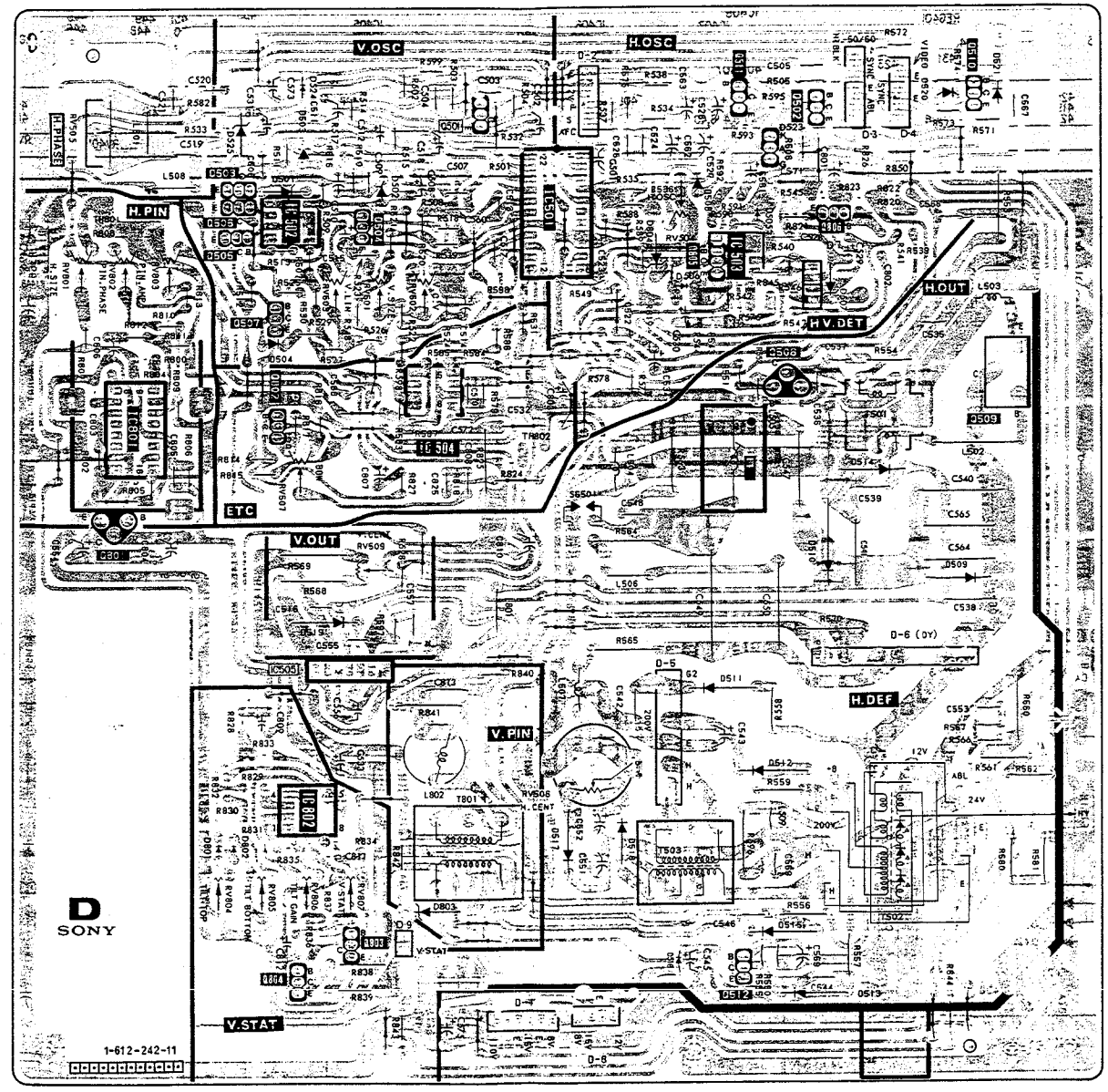




D V • H OSC, V AMP, V OUT, PIN CORRECT

— D Board —

Q , IC	D	ADJ
	524 520 521	
510 502		
501	525	RV505
503	502	
504 506 IC502 IC501	501	RV504
505		
805	804	RV801 RV802 RV803
507		RV503 RV501 RV502
	504	
509 508 IC504		
802 IC801		
	514	RV507
801		
	510	RV509
	509	
	519	
IC505		
	511	
	512	RV506
	518	
	517	
	515	
512	516	
	513	
Q , IC	D	ADJ

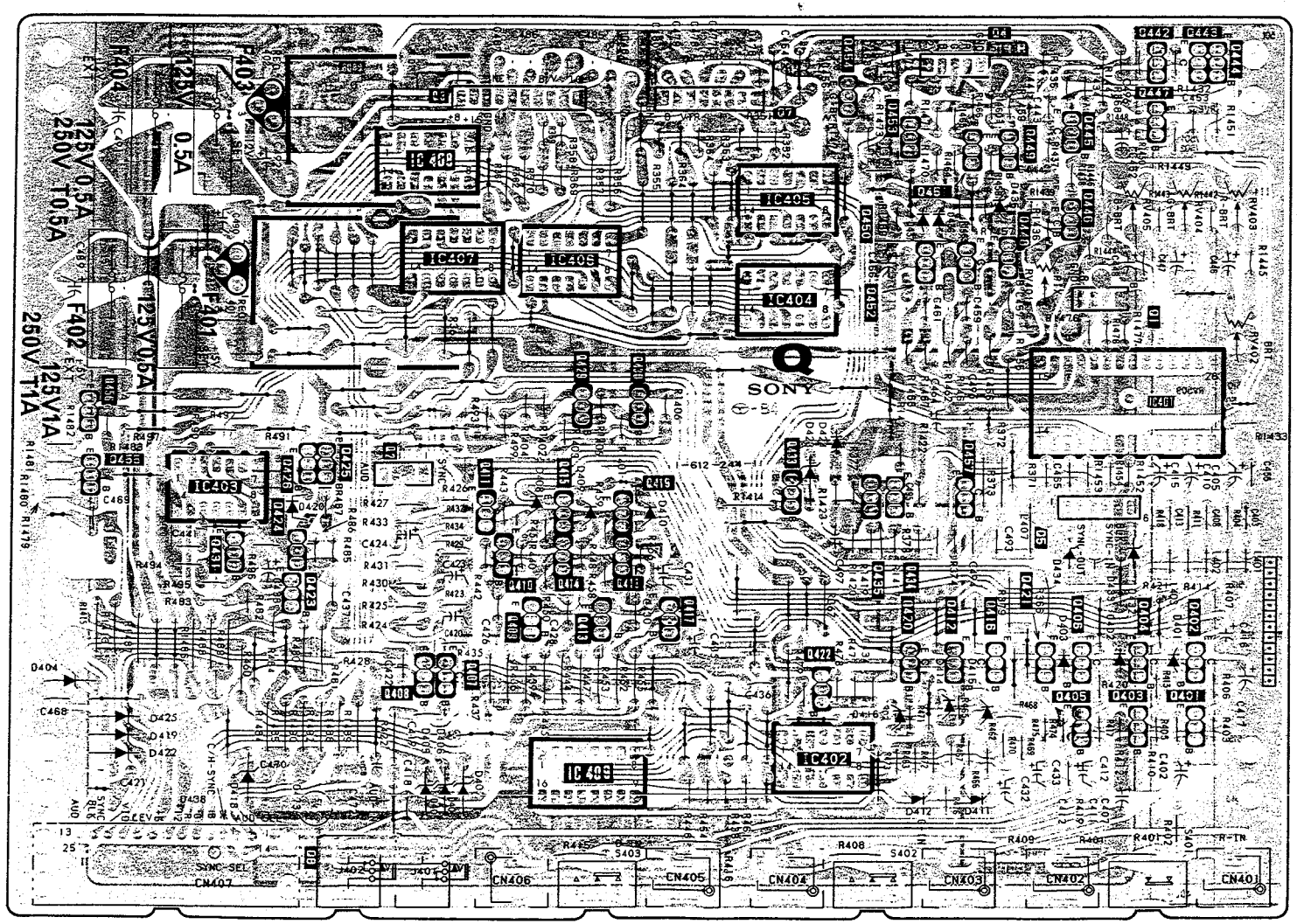


Q R • G • B PROCESS, CONTROL LOGIC, SYNC OUT, R • G • B IN, AF IN, COMPTR IN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

— Q Board —

Q, IC	456 455 REG402 REG401 IC403 431 426,425 424 423 IC408 IC407 411 410 409 408,407 IC406 429 430 415 414 413 419 418 417 IC409 454 IC405 IC404 433 453 451 449 445 442 443,444 452 450 448 446 447 435,434 457 IC401 422 IC402 420 412 416 421 406 405 404 403 402 401	Q, IC
D	404 425 419 422 420 418 408 409 410 405,406,407 423 424 437,436 435 416 412 414 411 415 403 401 402	D
ADJ	RV401 RV405 RV404 RV403 RV402	ADJ

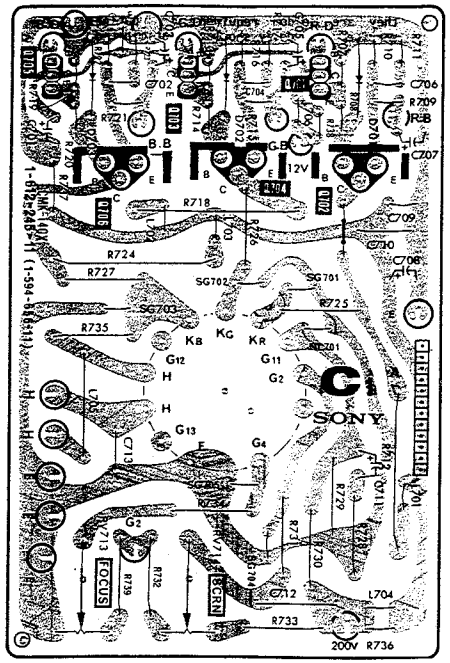


C1 (R・G・B OUT) C2 (R・G・B DRIVE, R・G・B BKG)

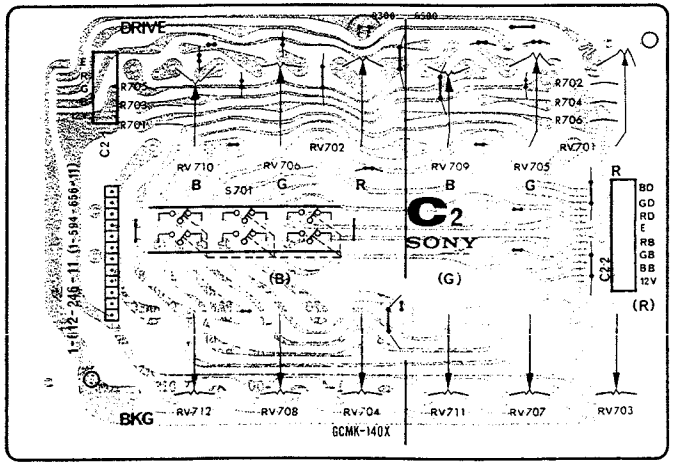
1 2 3 4 5 6

A B C D E F G H I

— C1 Board —



— C2 Board —



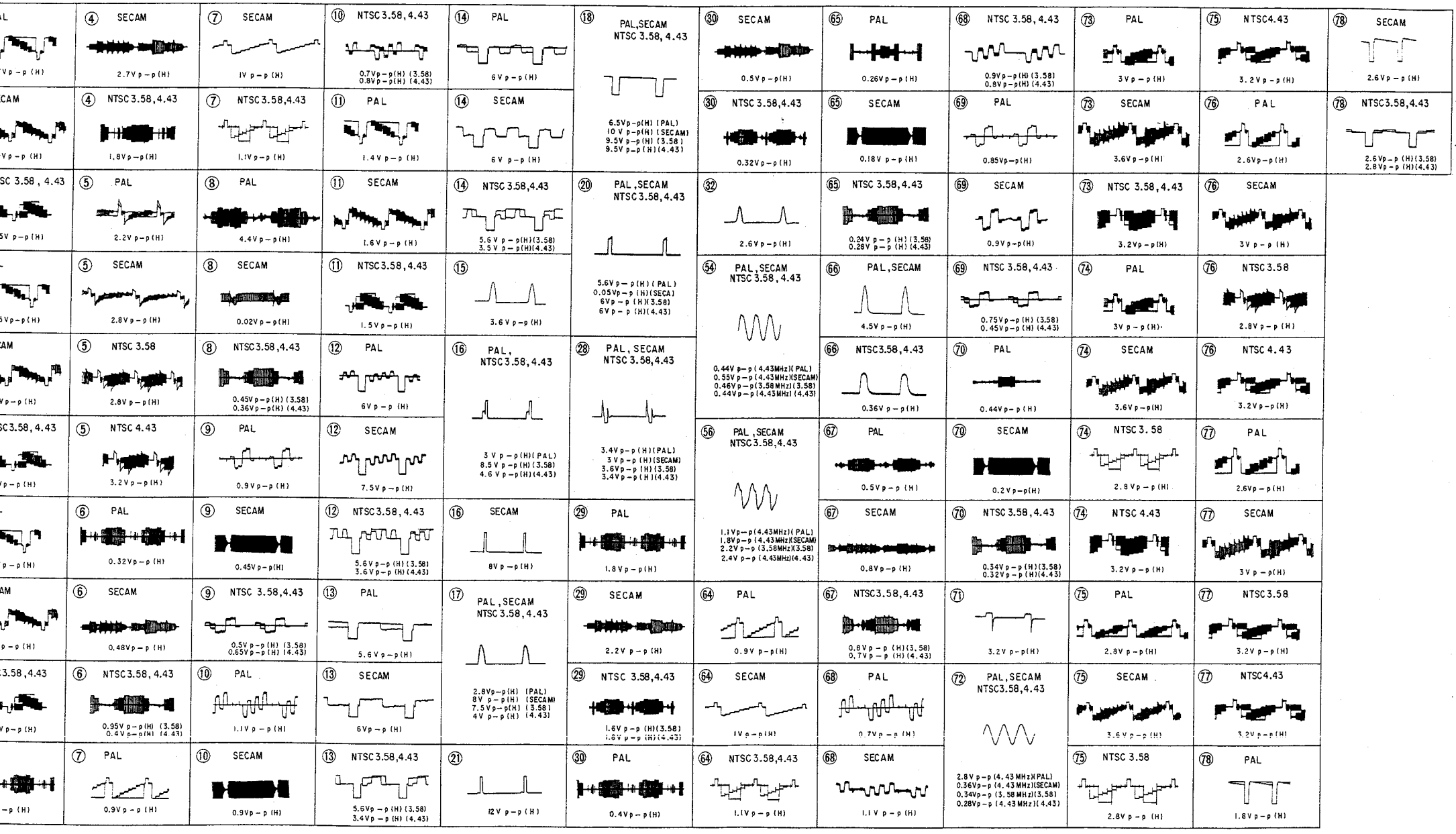
5-6. WAVEFORMS

B BOARD

① PAL 0.7Vp-p(H)	④ SECAM 2.7Vp-p(H)	⑦ SECAM 1V p-p(H)	⑩ NTSC3.58,4.43 0.7Vp-p(H) (3.58) 0.8Vp-p(H) (4.43)	⑭ PAL 6V p-p(H)	⑱ PAL,SECAM NTSC 3.58, 4.43 6.5Vp-p(H) (PAL) 10 V p-p(H) (SECAM) 9.5V p-p(H) (3.58) 9.5V p-p(H)(4.43)	㉚ SECAM 0.5Vp-p(H)
① SECAM 0.9Vp-p(H)	④ NTSC3.58,4.43 1.8Vp-p(H)	⑦ NTSC3.58,4.43 1.1Vp-p(H)	⑪ PAL 1.4Vp-p(H)	⑭ SECAM 6V p-p(H)		㉚ NTSC 3.58,4.43 0.32Vp-p(H)
① NTSC 3.58, 4.43 0.85V p-p(H)	⑤ PAL 2.2V p-p(H)	⑧ PAL 4.4V p-p(H)	⑪ SECAM 1.6V p-p(H)	⑭ NTSC 3.58,4.43 5.6V p-p(H)(3.58) 3.5V p-p(H)(4.43)	⑳ PAL,SECAM NTSC3.58,4.43 5.6V p-p(H)(PAL) 0.05Vp-p(H)(SECA) 6Vp-p(H)(3.58) 6Vp-p(H)(4.43)	㉜ 2.6Vp-p(H)
② PAL 0.75Vp-p(H)	⑤ SECAM 2.8Vp-p(H)	⑧ SECAM 0.02Vp-p(H)	⑪ NTSC3.58,4.43 1.5Vp-p(H)	⑮ 3.6Vp-p(H)		㊹ PAL,SECAM NTSC 3.58, 4.4 0.44Vp-p(4.43MHz)(0.55Vp-p(4.43MHz)(S 0.46Vp-p(3.58MHz)(0.44Vp-p(4.43MHz)(
② SECAM 0.86Vp-p(H)	⑤ NTSC 3.58 2.8Vp-p(H)	⑧ NTSC3.58,4.43 0.45Vp-p(H) (3.58) 0.36Vp-p(H) (4.43)	⑫ PAL 6Vp-p(H)	⑯ PAL, NTSC 3.58,4.43 3 Vp-p(H)(PAL) 8.5 V p-p(H)(3.58) 4.6 V p-p(H)(4.43)	㉘ PAL, SECAM NTSC 3.58,4.43 3.4V p-p(H)(PAL) 3 Vp-p(H)(SECAM) 3.6Vp-p(H)(3.58) 3.4Vp-p(H)(4.43)	
② NTSC3.58,4.43 0.4Vp-p(H)	⑤ NTSC 4.43 3.2Vp-p(H)	⑨ PAL 0.9Vp-p(H)	⑫ SECAM 7.5Vp-p(H)			㊻ PAL ,SECAM NTSC3.58,4.4 1.1Vp-p(4.43MHz)(1.8Vp-p(4.43MHz)(2.2Vp-p(3.58MHz)(2.4Vp-p(4.43MHz)(
③ PAL 0.7Vp-p(H)	⑥ PAL 0.32Vp-p(H)	⑨ SECAM 0.45Vp-p(H)	⑫ NTSC3.58,4.43 5.6Vp-p(H) (3.58) 3.6Vp-p(H) (4.43)	⑯ SECAM 8Vp-p(H)	㉙ PAL 1.8Vp-p(H)	
③ SECAM 0.9Vp-p(H)	⑥ SECAM 0.48Vp-p(H)	⑨ NTSC 3.58,4.43 0.5V p-p(H) (3.58) 0.65Vp-p(H) (4.43)	⑬ PAL 5.6Vp-p(H)	⑰ PAL,SECAM NTSC 3.58,4.43 2.8Vp-p(H) (PAL) 8V p-p(H) (SECAM) 7.5Vp-p(H) (3.58) 4V p-p(H) (4.43)	㉙ SECAM 2.2V p-p(H)	㊹ PAL 0.9V p-p(H)
③ NTSC3.58,4.43 0.85Vp-p(H)	⑥ NTSC3.58,4.43 0.95Vp-p(H) (3.58) 0.4Vp-p(H) (4.43)	⑩ PAL 1.1V p-p(H)	⑬ SECAM 6Vp-p(H)		㉙ NTSC 3.58,4.43 1.6Vp-p(H)(3.58) 1.8Vp-p(H)(4.43)	㊹ SECAM 1V p-p(H)
④ PAL 1.3V p-p(H)	⑦ PAL 0.9Vp-p(H)	⑩ SECAM 0.9Vp-p(H)	⑬ NTSC3.58,4.43 5.6Vp-p(H) (3.58) 3.4Vp-p(H) (4.43)	㉑ 12V p-p(H)	㉚ PAL 0.4Vp-p(H)	㊹ NTSC3.58,4.4 1.1Vp-p(H)

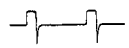
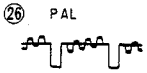
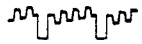
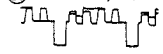
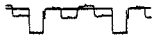
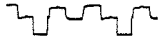
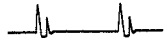
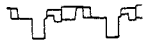
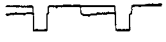
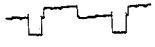
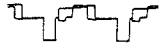
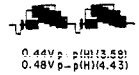
5-6. WAVEFORMS

D

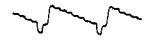
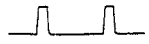
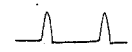
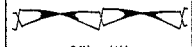
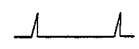
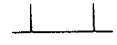
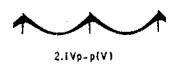
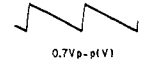
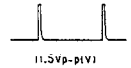
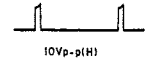
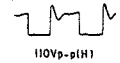

④ SECAM 2.7V p-p (H)
⑦ SECAM 1V p-p (H)
⑩ NTSC 3.58, 4.43 0.7Vp-p(H) (3.58) 0.8Vp-p(H) (4.43)
⑭ PAL 6V p-p (H)
⑱ PAL, SECAM NTSC 3.58, 4.43 6.5Vp-p(H) (PAL) 10 V p-p(H) (SECAM) 9.5V p-p (H) (3.58) 9.5V p-p (H)(4.43)
㉚ SECAM 0.5V p-p(H)
㊺ PAL 0.26Vp-p (H)
㊽ NTSC 3.58, 4.43 0.9Vp-p(H) (3.58) 0.8V p-p(H) (4.43)
㉓ PAL 3V p-p (H)
㉕ NTSC4.43 3.2V p-p (H)
㉘ SECAM 2.6V p-p (H)
④ NTSC 3.58, 4.43 1.8Vp-p(H)
⑦ NTSC 3.58, 4.43 1.1V p-p (H)
⑪ PAL 1.4V p-p (H)
⑭ SECAM 6V p-p (H)
㉚ NTSC 3.58, 4.43 0.32Vp-p(H)
㊺ SECAM 0.18V p-p (H)
㊾ PAL 0.85Vp-p(H)
㉓ SECAM 3.6Vp-p(H)
㉖ PAL 2.6Vp-p(H)
㉘ NTSC 3.58, 4.43 2.6Vp-p (H)(3.58) 2.8Vp-p (H)(4.43)
⑤ PAL 2.2V p-p(H)
⑧ PAL 4.4Vp-p(H)
⑪ SECAM 1.6V p-p (H)
⑭ NTSC 3.58, 4.43 5.6V p-p(H)(3.58) 3.5V p-p(H)(4.43)
⑳ PAL, SECAM NTSC 3.58, 4.43 5.6V p-p(H) (PAL) 0.05Vp-p (H)(SECA) 6Vp-p (H)(3.58) 6Vp-p (H)(4.43)
㉜ 2.6Vp-p(H)
㊺ NTSC 3.58, 4.43 0.24V p-p (H) (3.58) 0.28V p-p (H) (4.43)
㊾ SECAM 0.9Vp-p(H)
㉓ NTSC 3.58, 4.43 3.2Vp-p(H)
㉖ SECAM 3Vp-p (H)
⑤ SECAM 2.8Vp-p(H)
⑧ SECAM 0.02Vp-p(H)
⑪ NTSC 3.58, 4.43 1.5Vp-p(H)
⑮ 3.6Vp-p(H)
㊹ PAL, SECAM NTSC 3.58, 4.43 0.44Vp-p (4.43MHz)(PAL) 0.55Vp-p (4.43MHz)(SECAM) 0.46Vp-p (3.58MHz) (3.58) 0.44Vp-p (4.43MHz) (4.43)
㊻ PAL, SECAM 4.5Vp-p(H)
㊾ NTSC 3.58, 4.43 0.75Vp-p (H) (3.58) 0.45Vp-p (H) (4.43)
㉔ PAL 3Vp-p(H)
㉖ NTSC 3.58 2.8Vp-p (H)
⑤ NTSC 3.58 2.8Vp-p(H)
⑧ NTSC 3.58, 4.43 0.45Vp-p(H) (3.58) 0.36Vp-p(H) (4.43)
⑫ PAL 6Vp-p (H)
⑯ PAL, NTSC 3.58, 4.43 3 Vp-p(H)(PAL) 8.5 Vp-p(H) (3.58) 4.6 Vp-p(H)(4.43)
㉘ PAL, SECAM NTSC 3.58, 4.43 3.4Vp-p (H)(PAL) 3 Vp-p (H)(SECAM) 3.6Vp-p (H) (3.58) 3.4Vp-p (H)(4.43)
㊻ NTSC 3.58, 4.43 0.36Vp-p(H)
㊾ PAL 0.44Vp-p (H)
㉔ SECAM 3.6Vp-p(H)
㉖ NTSC 4.43 3.2Vp-p(H)
⑤ NTSC 4.43 3.2Vp-p(H)
⑨ PAL 0.9Vp-p (H)
⑫ SECAM 7.5Vp-p(H)
㊸ PAL, SECAM NTSC 3.58, 4.43 1.1Vp-p (4.43MHz)(PAL) 1.8Vp-p (4.43MHz)(SECAM) 2.2Vp-p (3.58MHz)(3.58) 2.4Vp-p (4.43MHz)(4.43)
㊼ PAL 0.5Vp-p (H)
㊾ SECAM 0.2Vp-p(H)
㉔ NTSC 3.58 2.8Vp-p (H)
㉗ PAL 2.6Vp-p(H)
⑥ PAL 0.32Vp-p (H)
⑨ SECAM 0.45Vp-p(H)
⑫ NTSC 3.58, 4.43 5.6Vp-p (H) (3.58) 3.6Vp-p (H) (4.43)
⑯ SECAM 8Vp-p(H)
㉙ PAL 1.8Vp-p(H)
㊼ SECAM 0.8Vp-p (H)
㊾ NTSC 3.58, 4.43 0.34Vp-p (H)(3.58) 0.32Vp-p (H)(4.43)
㉔ NTSC 4.43 3.2Vp-p (H)
㉗ SECAM 3Vp-p(H)
⑥ SECAM 0.48Vp-p (H)
⑨ NTSC 3.58, 4.43 0.5Vp-p (H) (3.58) 0.65Vp-p (H) (4.43)
⑬ PAL 5.6Vp-p(H)
⑰ PAL, SECAM NTSC 3.58, 4.43 2.8Vp-p(H) (PAL) 8V p-p(H) (SECAM) 7.5Vp-p(H) (3.58) 4V p-p (H) (4.43)
㉙ SECAM 2.2V p-p (H)
㊹ PAL 0.9V p-p(H)
㊼ NTSC 3.58, 4.43 0.8Vp-p (H)(3.58) 0.7Vp-p (H)(4.43)
㊿ 3.2V p-p(H)
㉕ PAL 2.8V p-p(H)
㉗ NTSC 3.58 3.2V p-p (H)
⑥ NTSC 3.58, 4.43 0.95Vp-p(H) (3.58) 0.4Vp-p(H) (4.43)
⑩ PAL 1.1V p-p (H)
⑬ SECAM 6Vp-p (H)
㉙ NTSC 3.58, 4.43 1.6V p-p (H)(3.58) 1.6V p-p (H)(4.43)
㊹ SECAM 1V p-p(H)
㊽ PAL 0.7Vp-p (H)
㉒ PAL, SECAM NTSC 3.58, 4.43 2.8Vp-p (4.43MHz)(PAL) 0.36Vp-p (4.43MHz)(SECAM) 0.34Vp-p (3.58MHz)(3.58) 0.28Vp-p (4.43MHz)(4.43)
㉕ SECAM 3.6Vp-p(H)
㉗ NTSC4.43 3.2Vp-p(H)
⑦ PAL 0.9Vp-p (H)
⑩ SECAM 0.9Vp-p (H)
⑬ NTSC 3.58, 4.43 5.6Vp-p (H) (3.58) 3.4Vp-p (H) (4.43)
㉑ 12V p-p (H)
㉚ PAL 0.4Vp-p(H)
㊹ NTSC 3.58, 4.43 1.1V p-p (H)
㊽ SECAM 1.1V p-p (H)
㉕ NTSC 3.58 2.8Vp-p (H)
㉘ PAL 1.8Vp-p (H)

PVM-2010QM

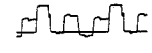
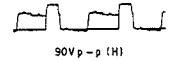
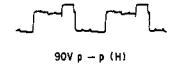
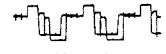
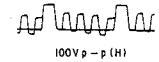
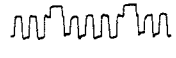
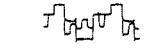
Q BOARD

⑲  1.8Vp-p(H)	㉖ PAL  6Vp-p(H)	㉞ SECAM 1.7Vp-p(H)
㉒ 11Vp-p(H)	㉖ SECAM  7.5Vp-p(H)	㉞ NTSC 3.58,4.43 1.6Vp-p(H)(3.58) 1.8Vp-p(H)(4.43)
㉓ 9Vp-p(H)	㉖ NTSC 3.58,4.43  3.6Vp-p(H)(3.58) 4.4Vp-p(H)(4.43)	
㉔ PAL  6Vp-p(H)	㉗ 5Vp-p(H)	
㉔ SECAM  6Vp-p(H)	㉛ PAL, SECAM NTSC 3.58,4.43  2.8Vp-p(H)(PAL) 2.4Vp-p(H)(SECAM) 2.8Vp-p(H)(3.58) 2.8Vp-p(H)(4.43)	
㉔ NTSC 3.58,4.43  3.5Vp-p(H)(3.58) 4.4Vp-p(H)(4.43)		
㉕ PAL  5.6Vp-p(H)	㉝ PAL 0.36Vp-p(H)	
㉕ SECAM  6Vp-p(H)	㉝ SECAM 0.42Vp-p(H)	
㉕ NTSC 3.58  5.6Vp-p(H)	㉝ NTSC 3.58,4.43  0.44Vp-p(H)(3.58) 0.48Vp-p(H)(4.43)	
㉕ NTSC 4.43 4.4Vp-p(H)	㉞ PAL 2.4Vp-p(H)	

D BOARD

㉟ PAL 1.5Vp-p(H)	㊸ 3.2Vp-p(V)	㊼ 820Vp-p(H)
㉟ SECAM  1.6Vp-p(H)	㊹  14Vp-p(H)	㊽ 4.4Vp-p(H)
㉟ NTSC3.58,4.43 1.7Vp-p(H) 1.8Vp-p(H)	㊺  4.4Vp-p(H)	
㊱ 9Vp-p(H)	㊻ 50Vp-p(V)	
㊲ 8Vp-p(H)	㊼  24Vp-p(V)	
㊳ 8Vp-p(H)	㊽  6Vp-p(V)	
㊴  4Vp-p(V)	㊾  2.1Vp-p(V)	
㊵ 2.6Vp-p(V)	㊿  0.7Vp-p(V)	
㊶  11.5Vp-p(V)	(52) 0.36Vp-p(V)	
(42)  10Vp-p(H)	(55)  110Vp-p(H)	

C1 BOARD

(59) 19Vp-p(H)
(60) PAL  90Vp-p(H)
(60) SECAM 115Vp-p(H)
(60) NTSC 3.58,4.43 110Vp-p(H)
(61) PAL  90Vp-p(H)
(61) SECAM  90Vp-p(H)
(61) NTSC 3.58,4.43  90Vp-p(H)
(62) PAL  100Vp-p(H)
(62) SECAM  105Vp-p(H)
(62) NTSC 3.58,4.43  100Vp-p(H)

GA BOARD

(63) 19μS 300Vp-p

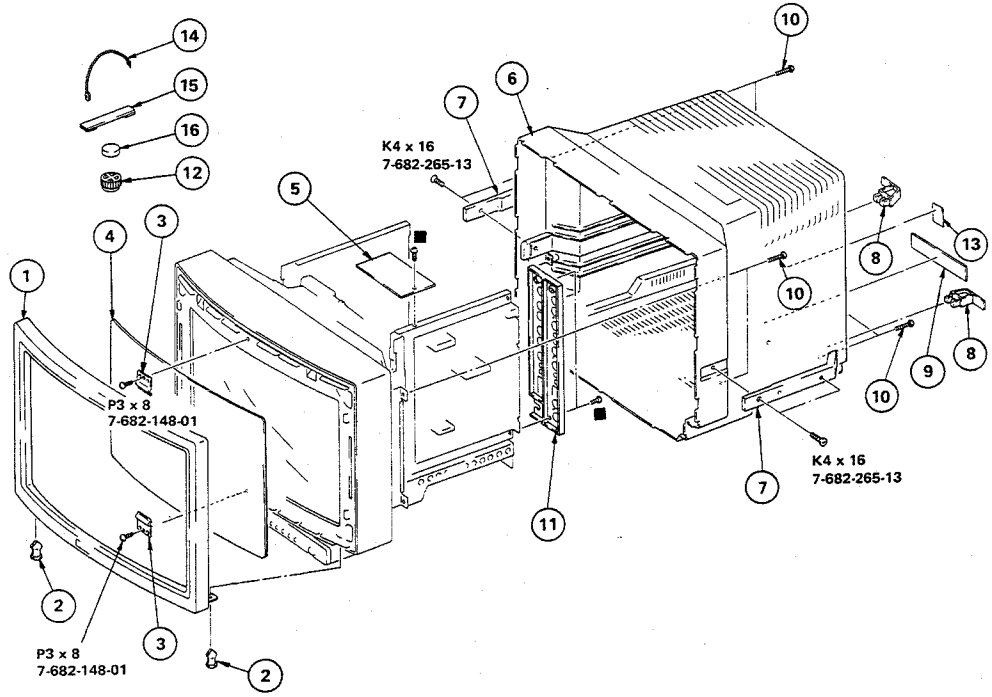
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1) CABINET ASS'Y

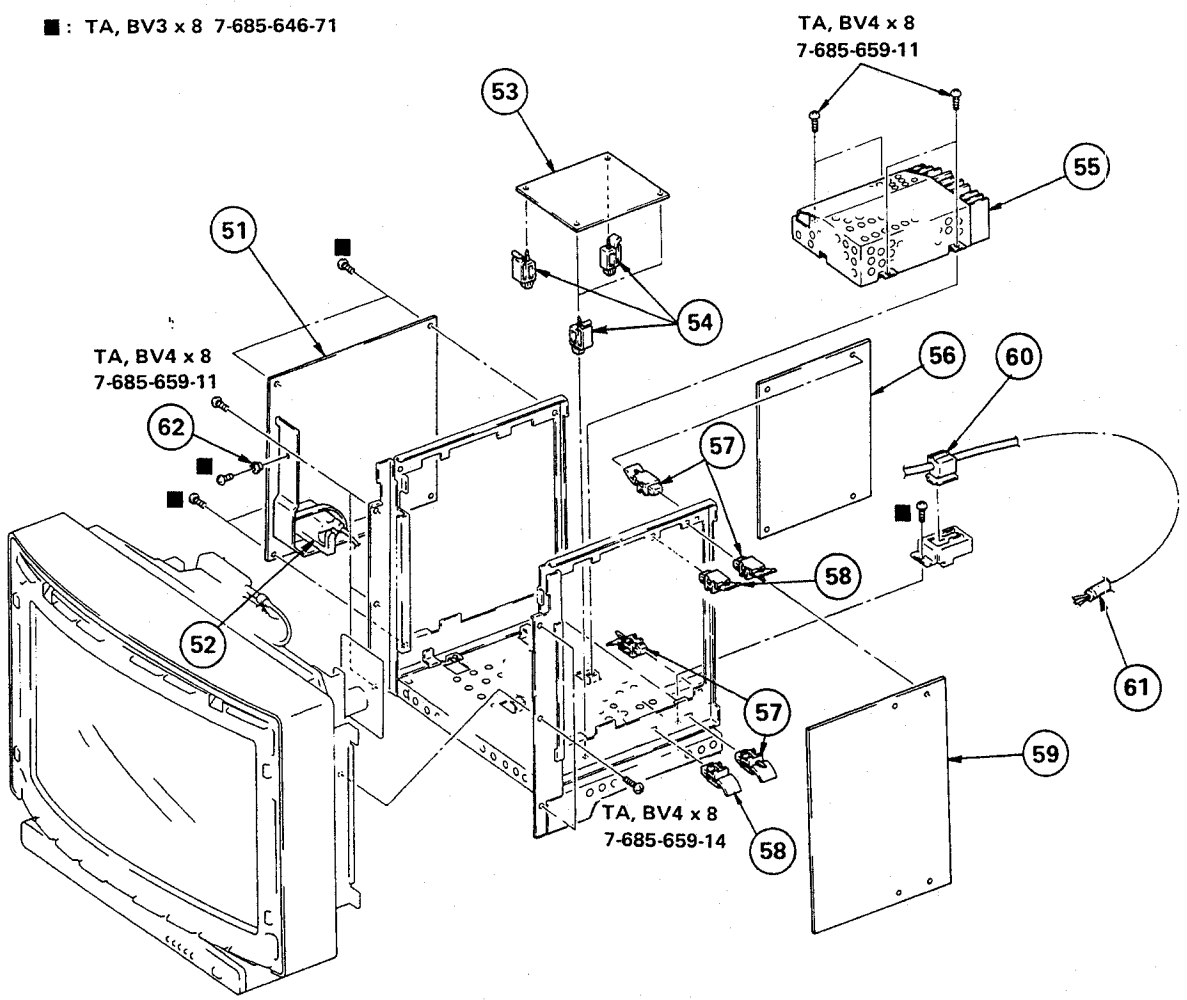
■: TA, BV3 x 8 7-685-646-71



No.	Part No.	Description	Remark
1	X-4370-904-1	PANEL ASSY, FRONT	
2	4-370-920-01	CLIP, PANEL	
3	4-370-902-01	RETAINER, PANEL	
4	4-370-925-01	FILTER	
5	♣:1-612-246-11	C2 BOARD	
6	X-4370-903-1	CABINET ASSY	
7	X-4370-906-1	HANDLE ASSY	7,8,9
8	4-316-003-00	HOLDER, CORD	
9	4-370-907-01	SHEET (B), BLIND	
10	4-304-494-21	SCREW, TAPPING, +PW4X16	
11	4-370-930-01	PANEL, CONNECTOR	
12	1-452-094-00	MAGNET ROTATABLE DISK; 15MM ϕ	
13	♣:4-363-314-01	LABEL, MODEL NUMBER	
14	4-308-870-00	BEADS BAND	
15	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
16	1-452-032-00	MAGNET DISK; 10MM ϕ	

(2) CHASSIS ASS'Y

■ : TA, BV3 x 8 7-685-646-71

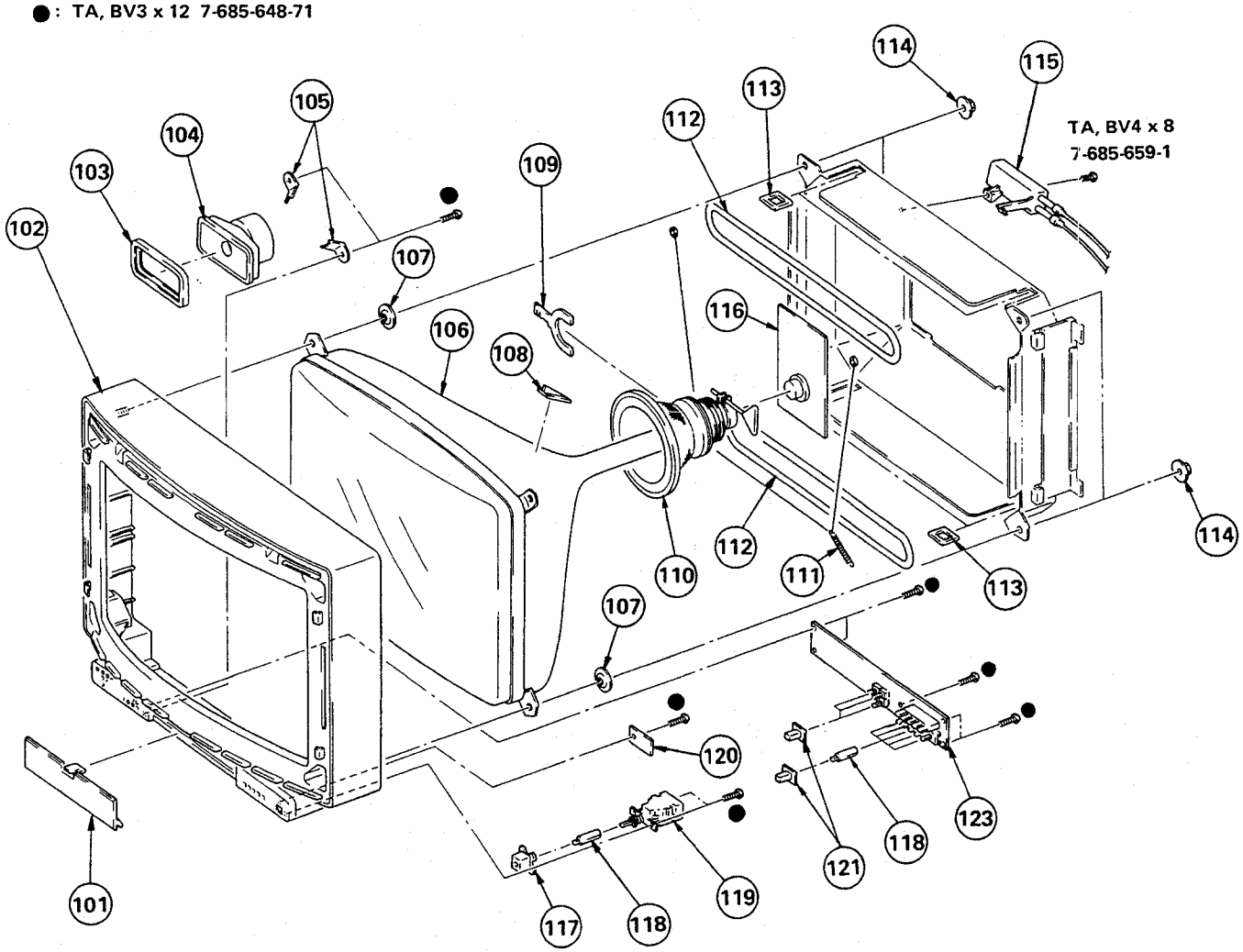


No.	Part No.	Description	Remark
51	♦:A-1345-455-A	D BOARD, COMPLETE	
52	⚠:1-439-322-00	TRANSFORMER ASSY, FLYBACK	
53	♦:1-612-243-11	F BOARD	
54	♦:3-659-681-00	HOLDER, PC BOARD	
55	⚠:1-413-179-11	SWITCHING REGULATOR (TK-09)	
56	A-1275-050-A	Q BOARD, COMPLETE	
57	♦:3-703-141-00	HOLDER, PCB	
58	♦:4-321-929-00	HOLDER, PC BOARD	
59	♦:A-1135-239-A	B BOARD, COMPLETE	
60	⚠ ♦:4-364-745-00	BUSHING, AC CORD	
61	⚠:1-534-820-XX	POWER CORD	
62	4-303-203-00	BUSHING	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(3) BEZEL ASS'Y

● : TA, BV3 x 12 7-685-648-71



No.	Part No.	Description	Remark
101	X-4370-907-1	DOOR ASSY	
102	X-4363-306-1	BEZEL ASSY	103, 104, 105
103	★4-364-741-00	CUSHION, SPEAKER	
104	1-503-109-00	SPEAKER	
105	★4-321-611-00	CLAW, RETAINING, SPEAKER	
106	⚠8-737-251-05	CRT A49JHT00X	
107	4-348-567-00	WASHER, CRT POSITION	
108	3-703-003-00	SPACER, DY	
109	1-452-146-00	BMC MAGNET	
110	⚠1-451-204-61	DEFLECTION YOKE (SY-108B)	
111	4-303-774-XX	SPRING	
112	⚠1-426-087-41	COIL, DEGAUSSING	
113	★4-322-922-00	HOLDER, COIL, DEGAUSSER	
114	4-306-034-00	FLANGE NUT, (B) 5MM	
115	⚠1-228-482-00	RESISTOR ASSY, HIGH-VOLTAGE	
116	★A-1330-507-A	C1 BOARD, COMPLETE	
117	4-346-409-11	BUTTON, POWER	
118	★4-370-903-01	SHAFT, BUTTON	
119	⚠1-552-503-00	SWITCH, PUSH	
120	★1-612-249-11	X BOARD	
121	4-369-627-01	PUSH BUTTON	
123	★1-612-248-11	H BOARD	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

H X B

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μF, PF : μμF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μH

Ref.No	Part No.	Description	Remark
	♦:1-612-248-11	H BOARD	
		*******	
	♦:4-363-319-01	HOLDER (4 GANG), LED	
	♦:4-370-916-01	HOLDER (5 GANG), LED	
		DIODE	
D301	8-719-114-34	DIODE SY432D	
D302	8-719-114-34	DIODE SY432D	
D303	8-719-114-34	DIODE SY432D	
D304	8-719-114-34	DIODE SY432D	
D305	8-719-114-34	DIODE SY432D	
D306	8-719-100-14	DIODE RD3.0E-B1	
D307	8-719-114-34	DIODE SY432D	
D308	8-719-114-34	DIODE SY432D	
D309	8-719-114-34	DIODE SY432D	
D310	8-719-114-34	DIODE SY432D	
		TRANSISTOR	
Q301	8-729-245-83	TRANSISTOR 2SC2458	
		RESISTOR	
R301	1-247-846-00	CARBON 4.3K 5% 1/6W	
R302	1-247-868-00	CARBON 36K 5% 1/6W	
R303	1-247-852-00	CARBON 7.5K 5% 1/6W	
R304	1-247-855-00	CARBON 10K 5% 1/6W	
R305	1-247-831-00	CARBON 1K 5% 1/6W	
R306	1-247-831-00	CARBON 1K 5% 1/6W	
R307	1-247-831-00	CARBON 1K 5% 1/6W	
R308	1-247-867-00	CARBON 33K 5% 1/6W	
R309	1-247-835-00	CARBON 1.5K 5% 1/6W	
		VARIABLE RESISTOR	
RV301	1-228-938-00	RES, VAR, CARBON 20K	
RV302	1-228-936-00	RES, VAR, CARBON 10K	
RV303	1-228-938-00	RES, VAR, CARBON 20K	
RV304	1-228-938-00	RES, VAR, CARBON 20K	
RV305	1-228-937-00	RES, VAR, CARBON 20K	
RV306	1-228-937-00	RES, VAR, CARBON 20K	
RV307	1-228-938-00	RES, VAR, CARBON 20K	
		SWITCH	
S301	1-554-405-00	SWITCH, PUSH (5 KEY)	
S302	1-554-118-00	SWITCH, PUSH	
S303	1-554-118-00	SWITCH, PUSH	
S304	1-554-118-00	SWITCH, PUSH	
S305	1-554-118-00	SWITCH, PUSH	
**********			
	♦:1-612-249-11	X BOARD	
		*******	
	♦:4-345-701-00	HOLDER, LED	
		DIODE	
D311	8-719-102-34	DIODE SG232D	
**********			
	♦:A-1135-239-A	B BOARD, COMPLETE	
		**********	
	♦:4-323-833-00	HEAT SINK, PIN OUT	
		CONNECTOR	
B1	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
B2	♦:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P	
B3	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
B4	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
B5	♦:1-560-156-00	PLUG, CONNECTOR (2.5MM PITCH)	
B6	♦:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
B7	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
B8	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
		CAPACITOR	
C003	1-123-356-00	ELECT 10MF 20% 25V	
C004	1-123-356-00	ELECT 10MF 20% 25V	
C005	1-123-356-00	ELECT 10MF 20% 25V	
C006	1-123-356-00	ELECT 10MF 20% 25V	
C007	1-123-356-00	ELECT 10MF 20% 25V	
C008	1-123-380-00	ELECT 1MF 20% 50V	
C009	1-106-212-00	MYLAR 0.047MF 10% 100V	
C010	1-123-356-00	ELECT 10MF 20% 25V	
C011	1-123-356-00	ELECT 10MF 20% 25V	
C012	1-123-356-00	ELECT 10MF 20% 25V	
C013	1-123-356-00	ELECT 10MF 20% 25V	
C014	1-123-380-00	ELECT 1MF 20% 50V	
C015	1-106-212-00	MYLAR 0.047MF 10% 100V	
C017	1-106-212-00	MYLAR 0.047MF 10% 100V	
C018	1-123-380-00	ELECT 1MF 20% 50V	
C019	1-123-356-00	ELECT 10MF 20% 25V	
C020	1-123-356-00	ELECT 10MF 20% 25V	
C021	1-123-356-00	ELECT 10MF 20% 25V	
C022	1-123-356-00	ELECT 10MF 20% 25V	
C023	1-123-356-00	ELECT 10MF 20% 25V	
C024	1-123-356-00	ELECT 10MF 20% 25V	
C025	1-123-356-00	ELECT 10MF 20% 25V	
C026	1-123-332-00	ELECT 47MF 20% 25V	
C027	1-123-356-00	ELECT 10MF 20% 25V	
C100	1-101-361-00	CERAMIC 150PF 5% 50V	
C101	1-123-332-00	ELECT 47MF 20% 16V	
C102	1-123-356-00	ELECT 10MF 20% 25V	
C103	1-102-961-00	CERAMIC 27PF 5% 50V	
C104	1-102-973-00	CERAMIC 100PF 5% 50V	
C105	1-123-356-00	ELECT 10MF 20% 16V	

B

Ref.No	Part No.	Description			Remark
C106	1-123-356-00	ELECT	10MF	20%	25V
C107	1-102-978-00	CERAMIC	220PF	5%	50V
C108	1-123-356-00	ELECT	10MF	20%	16V
C109	1-102-959-00	CERAMIC	22PF	5%	50V
C110	1-102-961-00	CERAMIC	27PF	5%	50V
C111	1-101-888-00	CERAMIC	68PF	5%	50V
C112	1-102-971-00	CERAMIC	82PF	5%	50V
C113	1-102-978-00	CERAMIC	220PF	5%	50V
C114	1-123-332-00	ELECT	47MF	20%	16V
C115	1-123-356-00	ELECT	10MF	20%	16V
C117	1-123-356-00	ELECT	10MF	20%	25V
C119	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C120	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C121	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C122	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C123	1-123-380-00	ELECT	1MF	20%	50V
C124	1-123-356-00	ELECT	10MF	20%	25V
C127	1-101-004-00	CERAMIC	0.01MF		50V
C128	1-123-380-00	ELECT	1MF	20%	50V
C129	1-123-379-00	ELECT	0.47MF	20%	50V
C130	1-123-380-00	ELECT	1MF	20%	50V
C131	1-108-389-00	MYLAR	0.1MF	10%	100V
C132	1-108-389-00	MYLAR	0.1MF	10%	100V
C133	1-123-332-00	ELECT	47MF		16V
C134	1-102-944-00	CERAMIC	7PF	0.5PF	50V
			(Serial No.up to 204,000)		
	1-101-880-00	CERAMIC	47PF	5%	50V
			(Serial No. 204,001 and later)		
C135	1-101-004-00	CERAMIC	0.01MF		50V
C136	1-101-880-00	CERAMIC	47PF	5%	50V
C137	1-102-959-00	CERAMIC	22PF	5%	50V
C138	1-101-004-00	CERAMIC	0.01MF		50V
C139	1-108-579-00	MYLAR	0.01MF	5%	50V
C140	1-123-381-00	ELECT	2.2MF	20%	50V
C141	1-161-025-00	CERAMIC	0.1MF	10%	25V
C142	1-161-025-00	CERAMIC	0.1MF	10%	25V
C143	1-101-880-00	CERAMIC	47PF	5%	50V
C144	1-101-880-00	CERAMIC	47PF	5%	50V
C145	1-102-934-00	CERAMIC	1PF	0.25PF	50V
C146	1-102-963-00	CERAMIC	33PF	5%	50V
C147	1-101-004-00	CERAMIC	0.01MF		50V
C148	1-123-356-00	ELECT	10MF	20%	25V
C150	1-101-004-00	CERAMIC	0.01MF		50V
C151	1-101-004-00	CERAMIC	0.01MF		50V
C152	1-101-004-00	CERAMIC	0.01MF		50V
C153	1-106-204-00	MYLAR	0.022MF	10%	100V
C155	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C157	1-123-380-00	ELECT	1MF	20%	50V
C158	1-123-382-00	ELECT	3.3MF	20%	50V
C159	1-124-049-00	ELECT	0.47MF	20%	50V
C160	1-102-115-00	CERAMIC	560PF	10%	50V
C161	1-102-971-00	CERAMIC	82PF	5%	50V
C162	1-101-361-00	CERAMIC	150PF	5%	50V
C163	1-102-971-00	CERAMIC	82PF	5%	50V
C164	1-121-257-00	ELECT	4.7MF		16V
C165	1-101-361-00	CERAMIC	150PF	5%	50V

Ref.No	Part No.	Description			Remark
C166	1-101-888-00	CERAMIC	68PF	5%	50V
C167	1-101-006-00	CERAMIC	0.047MF		50V
C169	1-108-389-00	MYLAR	0.1MF	10%	100V
C170	1-123-380-00	ELECT	1MF	20%	50V
C172	1-101-888-00	CERAMIC	68PF	5%	50V
C173	1-123-607-00	ELECT	0.1MF	20%	50V
C175	1-101-361-00	CERAMIC	150PF	5%	50V
C176	1-102-951-00	CERAMIC	15PF	5%	50V
C177	1-101-888-00	CERAMIC	68PF	5%	50V
C178	1-123-356-00	ELECT	10MF	20%	25V
C179	1-101-004-00	CERAMIC	0.01MF		50V
C180	1-123-323-00	ELECT	470MF	20%	16V
C183	1-123-379-00	ELECT	0.47MF	20%	50V
C184	1-123-356-00	ELECT	10MF	20%	25V
C186	1-123-356-00	ELECT	10MF	20%	25V
C187	1-101-004-00	CERAMIC	0.01MF		50V
C188	1-123-356-00	ELECT	10MF	20%	25V
C189	1-123-356-00	ELECT	10MF	20%	25V
C190	1-123-356-00	ELECT	10MF	20%	25V
C200	1-123-607-00	ELECT	0.1MF	20%	50V
C201	1-123-607-00	ELECT	0.1MF	20%	50V
C202	1-123-607-00	ELECT	0.1MF	20%	50V
C203	1-121-257-00	ELECT	4.7MF		16V
C204	1-123-381-00	ELECT	2.2MF	20%	50V
C205	1-102-525-00	CERAMIC	68PF	5%	50V
C206	1-102-892-00	CERAMIC	22PF	5%	50V
C207	1-102-679-00	CERAMIC	120PF	5%	50V
C208	1-101-880-00	CERAMIC	47PF	5%	50V
C209	1-102-971-00	CERAMIC	82PF	5%	50V
C210	1-101-361-00	CERAMIC	150PF	5%	50V
C211	1-108-377-00	MYLAR	0.01MF	10%	100V
C212	1-123-356-00	ELECT	10MF	20%	25V
C213	1-101-004-00	CERAMIC	0.01MF		50V
C214	1-108-579-00	MYLAR	0.01MF	5%	50V
C215	1-102-892-00	CERAMIC	22PF	5%	50V
C216	1-102-824-00	CERAMIC	470PF	5%	50V
C217	1-123-356-00	ELECT	10MF	20%	25V
C220	1-123-325-00	ELECT	2200MF	20%	16V
C221	1-108-389-00	MYLAR	0.1MF	10%	100V
C222	1-123-321-00	ELECT	220MF	20%	16V
C223	1-123-332-00	ELECT	47MF	20%	16V
C224	1-123-369-00	ELECT	4.7MF	20%	25V
C225	1-123-380-00	ELECT	1MF	20%	50V
C226	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C227	1-123-379-00	ELECT	0.47MF	20%	50V
C228	1-123-332-00	ELECT	47MF	20%	25V
C229	1-123-369-00	ELECT	4.7MF	20%	25V
C230	1-102-824-00	CERAMIC	470PF	5%	50V
C231	1-123-356-00	ELECT	10MF	20%	16V
C232	1-123-356-00	ELECT	10MF	20%	16V
C233	1-123-379-00	ELECT	0.47MF	20%	50V
C234	1-108-377-00	MYLAR	0.01MF	10%	100V
C235	1-123-321-00	ELECT	220MF	20%	16V

Ref.No	Part No.	Description			Remark
C236	1-101-004-00	CERAMIC	0.01MF		50V
C237	1-161-330-00	CERAMIC	0.01MF	30%	25V
C238	1-123-332-00	ELECT	47MF	20%	16V
C239	1-101-004-00	CERAMIC	0.01MF		50V
C240	1-102-959-00	CERAMIC	22PF	5%	50V
C241	1-102-959-00	CERAMIC	22PF	5%	50V
C242	1-123-356-00	ELECT	10MF	20%	25V
C243	1-101-004-00	CERAMIC	0.01MF		50V
C244	1-101-004-00	CERAMIC	0.01MF		50V
C343	1-101-004-00	CERAMIC	0.01MF		50V
		DIODE			
D001	8-719-911-19	DIODE 1SS119			
D002	8-719-911-19	DIODE 1SS119			
D003	8-719-911-19	DIODE 1SS119			
D004	8-719-911-19	DIODE 1SS119			
D005	8-719-911-19	DIODE 1SS119			
D007	8-719-911-19	DIODE 1SS119			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D103	8-719-981-01	DIODE ERA81-004			
D104	8-719-911-19	DIODE 1SS119			
D105	8-719-911-19	DIODE 1SS119			
D106	8-719-911-19	DIODE 1SS119			
D107	8-719-911-19	DIODE 1SS119			
D108	8-719-911-19	DIODE 1SS119			
D109	8-719-911-19	DIODE 1SS119			
D110	8-719-911-19	DIODE 1SS119			
D111	8-719-911-19	DIODE 1SS119			
D112	8-719-911-19	DIODE 1SS119			
D113	8-719-911-19	DIODE 1SS119			
D114	8-719-911-19	DIODE 1SS119			
D115	8-719-911-19	DIODE 1SS119			
D116	8-719-911-19	DIODE 1SS119			
D117	8-719-911-19	DIODE 1SS119			
D118	8-719-911-19	DIODE 1SS119			
D119	8-719-911-19	DIODE 1SS119			
D120	8-719-911-19	DIODE 1SS119			
D121	8-719-911-19	DIODE 1SS119			
D122	8-719-911-19	DIODE 1SS119			
D123	8-719-911-19	DIODE 1SS119			
D124	8-719-100-37	DIODE RD6.2E-B1			
D125	8-719-911-19	DIODE 1SS119			
		DELAY LINE			
DL101	1-415-207-21	DELAY LINE (1H)			
DL102	1-415-188-00	DELAY LINE			
DL103	1-415-122-31	DELAY LINE			
		IC			
IC001	8-759-700-06	IC UPC7812H			
IC101	8-752-006-10	IC CX20061			
IC102	8-752-006-10	IC CX20061			

Ref.No	Part No.	Description	Remark
IC103	8-759-113-65	IC UPC1365C	
IC104	8-759-240-24	IC TC4024BP	
IC105	8-759-240-23	IC TC4023BP	
IC201	8-759-100-15	IC UPC1364C2	
IC202	8-759-101-77	IC UPC1241H	
IC203	8-759-610-95	IC CX095E	
		CONNECTOR	
J1	1-562-121-00	CONNECTOR, DIN 6P	
J2	1-536-842-11	TERMINAL BOARD, INPUT/OUTPUT(A)	
		COIL	
L101	1-408-412-00	MICRO INDUCTOR 18UH	
L102	1-408-412-00	MICRO INDUCTOR 18UH	
L103	1-408-411-00	MICRO INDUCTOR 15UH	
L104	1-408-414-00	MICRO INDUCTOR 27UH	
L105	1-408-414-00	MICRO INDUCTOR 27UH	
L106	1-408-409-00	MICRO INDUCTOR 10UH	
L107	1-408-407-00	MICRO INDUCTOR 6.8UH	
L108	1-408-416-00	MICRO INDUCTOR 39UH	
L110	1-408-412-00	MICRO INDUCTOR 18UH	
L111	1-408-406-00	MICRO INDUCTOR 5.6UH	
L112	1-408-408-00	MICRO INDUCTOR 8.2UH	
L113	1-408-415-00	MICRO INDUCTOR 33UH	
L201	1-408-245-00	MICRO INDUCTOR 22MMH	
L202	1-408-163-00	MICRO INDUCTOR 5.6MMH	
L203	1-408-414-00	MICRO INDUCTOR 27UH	
L204	1-408-421-00	MICRO INDUCTOR 100UH	
		TRANSISTOR	
Q001	8-729-245-83	TRANSISTOR 2SC2458	
Q002	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q003	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q004	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q006	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q007	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q008	8-729-245-83	TRANSISTOR 2SC2458	
Q009	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q010	8-729-245-83	TRANSISTOR 2SC2458	
Q011	8-729-245-83	TRANSISTOR 2SC2458	
Q012	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q101	8-729-245-83	TRANSISTOR 2SC2458	
Q102	8-729-245-83	TRANSISTOR 2SC2458	
Q103	8-729-245-83	TRANSISTOR 2SC2458	
Q104	8-729-245-83	TRANSISTOR 2SC2458	
Q105	8-729-245-83	TRANSISTOR 2SC2458	
Q106	8-729-245-83	TRANSISTOR 2SC2458	
Q107	8-729-245-83	TRANSISTOR 2SC2458	
Q108	8-729-245-83	TRANSISTOR 2SC2458	
Q109	8-729-204-83	TRANSISTOR 2SA1048-GR	

B

Ref.No	Part No.	Description	Remark
Q110	8-729-245-83	TRANSISTOR 2SC2458	
Q111	8-729-245-83	TRANSISTOR 2SC2458	
Q113	8-729-245-83	TRANSISTOR 2SC2458	
Q116	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q117	8-729-245-83	TRANSISTOR 2SC2458	
Q118	8-729-245-83	TRANSISTOR 2SC2458	
Q120	8-729-245-83	TRANSISTOR 2SC2458	
Q121	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q122	8-729-245-83	TRANSISTOR 2SC2458	
Q123	8-729-245-83	TRANSISTOR 2SC2458	
Q124	8-729-115-30	TRANSISTOR 2SK105A-30	
Q125	8-729-245-83	TRANSISTOR 2SC2458	
Q126	8-729-115-30	TRANSISTOR 2SK105A-30	
Q127	8-729-115-30	TRANSISTOR 2SK105A-30	
Q128	8-769-115-30	TRANSISTOR 2SK105A-30	
Q129	8-729-245-83	TRANSISTOR 2SC2458	
Q130	8-729-245-83	TRANSISTOR 2SC2458	
Q131	8-729-115-30	TRANSISTOR 2SK105A-30	
Q132	8-729-115-30	TRANSISTOR 2SK105A-30	
Q133	8-729-245-83	TRANSISTOR 2SC2458	
Q135	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q136	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q137	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q138	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q139	8-729-245-83	TRANSISTOR 2SC2458	
Q140	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q141	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q142	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q143	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q144	8-729-245-83	TRANSISTOR 2SC2458	
Q145	8-729-245-83	TRANSISTOR 2SC2458	
Q148	8-729-245-83	TRANSISTOR 2SC2458	
Q149	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q150	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q151	8-729-245-83	TRANSISTOR 2SC2458	
Q152	8-729-245-83	TRANSISTOR 2SC2458	
Q153	8-729-245-83	TRANSISTOR 2SC2458	
Q154	8-729-178-54	TRANSISTOR 2SC2458	
Q155	8-729-245-83	TRANSISTOR 2SC2458	
Q156	8-729-245-83	TRANSISTOR 2SC2458	
Q157	8-729-245-83	TRANSISTOR 2SC2458	
Q158	8-769-115-30	TRANSISTOR 2SK105A-30	
Q159	8-729-204-83	TRANSISTOR 2SA1048-GR	

RESISTOR

Ref.No	Part No.	Description				Remark
R001	1-247-020-00	CARBON	1	5%	1/8W	F
R002	1-247-831-00	CARBON	1K	5%	1/6W	
R003	1-247-865-00	CARBON	27K	5%	1/6W	
R004	1-247-845-00	CARBON	3.9K	5%	1/6W	
R005	1-247-839-00	CARBON	2.2K	5%	1/6W	
R006	1-247-875-00	CARBON	68K	5%	1/6W	
R007	1-247-863-00	CARBON	22K	5%	1/6W	
R009	1-247-850-00	CARBON	6.2K	5%	1/6W	
R010	1-247-850-00	CARBON	6.2K	5%	1/6W	
R011	1-247-850-00	CARBON	6.2K	5%	1/6W	
R012	1-247-871-00	CARBON	47K	5%	1/6W	
R013	1-247-877-00	CARBON	82K	5%	1/6W	
R014	1-247-885-00	CARBON	180K	5%	1/6W	
R015	1-247-873-00	CARBON	56K	5%	1/6W	
R016	1-247-831-00	CARBON	1K	5%	1/6W	
R017	1-247-804-00	CARBON	75	5%	1/6W	
R019	1-247-804-00	CARBON	75	5%	1/6W	
R020	1-247-865-00	CARBON	27K	5%	1/6W	
R021	1-247-845-00	CARBON	3.9K	5%	1/6W	
R022	1-247-863-00	CARBON	22K	5%	1/6W	
R023	1-247-875-00	CARBON	68K	5%	1/6W	
R024	1-247-850-00	CARBON	6.2K	5%	1/6W	
R025	1-247-871-00	CARBON	47K	5%	1/6W	
R026	1-247-873-00	CARBON	56K	5%	1/6W	
R027	1-247-877-00	CARBON	82K	5%	1/6W	
R028	1-247-885-00	CARBON	180K	5%	1/6W	
R029	1-247-855-00	CARBON	10K	5%	1/6W	
R030	1-247-885-00	CARBON	180K	5%	1/6W	
R031	1-247-877-00	CARBON	82K	5%	1/6W	
R032	1-247-871-00	CARBON	47K	5%	1/6W	
R033	1-247-863-00	CARBON	22K	5%	1/6W	
R034	1-247-875-00	CARBON	68K	5%	1/6W	
R035	1-247-831-00	CARBON	1K	5%	1/6W	
R036	1-247-804-00	CARBON	75	5%	1/6W	
R037	1-247-865-00	CARBON	27K	5%	1/6W	
R038	1-247-845-00	CARBON	3.9K	5%	1/6W	
R039	1-247-850-00	CARBON	6.2K	5%	1/6W	
R040	1-247-875-00	CARBON	68K	5%	1/6W	
R041	1-247-804-00	CARBON	75	5%	1/6W	
R042	1-247-865-00	CARBON	27K	5%	1/6W	
R043	1-247-878-00	CARBON	91K	5%	1/6W	
R045	1-247-855-00	CARBON	10K	5%	1/6W	
R046	1-247-853-00	CARBON	8.2K	5%	1/6W	
R049	1-247-873-00	CARBON	56K	5%	1/6W	
R051	1-247-839-00	CARBON	2.2K	5%	1/6W	
R052	1-247-807-00	CARBON	100	5%	1/6W	
R053	1-247-871-00	CARBON	47K	5%	1/6W	
R054	1-247-871-00	CARBON	47K	5%	1/6W	
R055	1-247-877-00	CARBON	82K	5%	1/6W	
R056	1-246-501-00	CARBON	15K	5%	1/4W	
R100	1-247-853-00	CARBON	8.2K	5%	1/6W	
R101	1-247-869-00	CARBON	39K	5%	1/6W	
R102	1-247-815-00	CARBON	220	5%	1/6W	
R103	1-247-833-00	CARBON	1.2K	5%	1/6W	
R104	1-247-819-00	CARBON	330	5%	1/6W	
R105	1-247-827-00	CARBON	680	5%	1/6W	
R106	1-247-843-00	CARBON	3.3K	5%	1/6W	
R107	1-247-849-00	CARBON	5.6K	5%	1/6W	
R108	1-247-855-00	CARBON	10K	5%	1/6W	
R109	1-247-823-00	CARBON	470	5%	1/6W	
R110	1-247-823-00	CARBON	470	5%	1/6W	

Ref.No	Part No.	Description				Remark
R111	1-247-839-00	CARBON	2.2K	5%	1/6W	
R112	1-247-827-00	CARBON	680	5%	1/6W	
R113	1-247-817-00	CARBON	270	5%	1/6W	
R114	1-247-827-00	CARBON	680	5%	1/6W	
R115	1-247-835-00	CARBON	1.5K	5%	1/6W	
R116	1-247-803-00	CARBON	68	5%	1/6W	
R117	1-247-827-00	CARBON	680	5%	1/6W	
R118	1-247-827-00	CARBON	680	5%	1/6W	
R119	1-247-807-00	CARBON	100	5%	1/6W	
R120	1-247-827-00	CARBON	680	5%	1/6W	
R121	1-247-827-00	CARBON	680	5%	1/6W	
R122	1-247-807-00	CARBON	100	5%	1/6W	
R123	1-247-831-00	CARBON	1K	5%	1/6W	
R124	1-247-823-00	CARBON	470	5%	1/6W	
R125	1-247-831-00	CARBON	1K	5%	1/6W	
R126	1-247-807-00	CARBON	100	5%	1/6W	
R127	1-247-827-00	CARBON	680	5%	1/6W	
R128	1-247-814-00	CARBON	200	5%	1/6W	
R129	1-247-835-00	CARBON	1.5K	5%	1/6W	
R130	1-247-827-00	CARBON	680	5%	1/6W	
R131	1-247-823-00	CARBON	470	5%	1/6W	
R132	1-247-837-00	CARBON	1.8K	5%	1/6W	
R133	1-247-799-00	CARBON	47	5%	1/6W	
R135	1-247-815-00	CARBON	220	5%	1/6W	
R136	1-247-839-00	CARBON	2.2K	5%	1/6W	
R137	1-247-861-00	CARBON	18K	5%	1/6W	
R138	1-247-843-00	CARBON	3.3K	5%	1/6W	
R139	1-247-855-00	CARBON	10K	5%	1/6W	
R140	1-247-863-00	CARBON	22K	5%	1/6W	
R141	1-247-863-00	CARBON	22K	5%	1/6W	
R143	1-247-807-00	CARBON	100	5%	1/6W	
R144	1-247-863-00	CARBON	22K	5%	1/6W	
R145	1-247-863-00	CARBON	22K	5%	1/6W	
R147	1-247-835-00	CARBON	1.5K	5%	1/6W	
R148	1-247-835-00	CARBON	1.5K	5%	1/6W	
R149	1-247-863-00	CARBON	22K	5%	1/6W	
R150	1-247-829-00	CARBON	820	5%	1/6W	
R151	1-247-823-00	CARBON	470	5%	1/6W	
R152	1-247-829-00	CARBON	820	5%	1/6W	
R153	1-247-843-00	CARBON	3.3K	5%	1/6W	
R154	1-247-863-00	CARBON	22K	5%	1/6W	
R155	1-247-855-00	CARBON	10K	5%	1/6W	
R156	1-247-867-00	CARBON	33K	5%	1/6W	
R157	1-247-867-00	CARBON	33K	5%	1/6W	
R158	1-247-875-00	CARBON	68K	5%	1/6W	
R159	1-247-827-00	CARBON	680	5%	1/6W	
R160	1-247-869-00	CARBON	39K	5%	1/6W	
R161	1-247-855-00	CARBON	10K	5%	1/6W	
R162	1-247-871-00	CARBON	47K	5%	1/6W	
R165	1-247-903-00	CARBON	1M	5%	1/6W	
R167	1-247-835-00	CARBON	1.5K	5%	1/6W	
R168	1-247-867-00	CARBON	33K	5%	1/6W	
R170	1-247-859-00	CARBON	15K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R171	1-247-879-00	CARBON	100K	5%	1/6W	
R173	1-247-847-00	CARBON	4.7K	5%	1/6W	
R176	1-247-887-00	CARBON	220K	5%	1/6W	
R177	1-247-879-00	CARBON	100K	5%	1/6W	
R178	1-247-883-00	CARBON	150K	5%	1/6W	
R179	1-247-875-00	CARBON	68K	5%	1/6W	
R180	1-247-831-00	CARBON	1K	5%	1/6W	
R181	1-247-855-00	CARBON	10K	5%	1/6W	
R182	1-247-871-00	CARBON	47K	5%	1/6W	
R183	1-247-843-00	CARBON	3.3K	5%	1/6W	
R184	1-247-833-00	CARBON	1.2K	5%	1/6W	
R185	1-247-877-00	CARBON	82K	5%	1/6W	
R186	1-247-823-00	CARBON	470	5%	1/6W	
R187	1-247-865-00	CARBON	27K	5%	1/6W	
R188	1-247-867-00	CARBON	33K	5%	1/6W	
R189	1-247-875-00	CARBON	68K	5%	1/6W	
R190	1-247-867-00	CARBON	33K	5%	1/6W	
R191	1-247-871-00	CARBON	47K	5%	1/6W	
R192	1-247-839-00	CARBON	2.2K	5%	1/6W	
R193	1-247-845-00	CARBON	3.9K	5%	1/6W	
R194	1-247-859-00	CARBON	15K	5%	1/6W	
R195	1-247-839-00	CARBON	2.2K	5%	1/6W	
R196	1-247-865-00	CARBON	27K	5%	1/6W	
R197	1-247-827-00	CARBON	680	5%	1/6W	
R198	1-247-827-00	CARBON	680	5%	1/6W	
R199	1-247-831-00	CARBON	1K	5%	1/6W	
R200	1-247-879-00	CARBON	100K	5%	1/6W	
R201	1-247-903-00	CARBON	1M	5%	1/6W	
R202	1-247-903-00	CARBON	1M	5%	1/6W	
R203	1-247-855-00	CARBON	10K	5%	1/6W	
R204	1-247-855-00	CARBON	10K	5%	1/6W	
R205	1-247-855-00	CARBON	10K	5%	1/6W	
R206	1-247-875-00	CARBON	68K	5%	1/6W	
R207	1-247-815-00	CARBON	220	5%	1/6W	
R208	1-247-855-00	CARBON	10K	5%	1/6W	
R209	1-247-867-00	CARBON	33K	5%	1/6W	
R210	1-247-815-00	CARBON	220	5%	1/6W	
R211	1-247-815-00	CARBON	220	5%	1/6W	
R212	1-247-845-00	CARBON	3.9K	5%	1/6W	
R213	1-247-815-00	CARBON	220	5%	1/6W	
R214	1-247-815-00	CARBON	220	5%	1/6W	
R215	1-247-847-00	CARBON	4.7K	5%	1/6W	
R216	1-247-879-00	CARBON	100K	5%	1/6W	
R217	1-247-879-00	CARBON	100K	5%	1/6W	
R218	1-247-855-00	CARBON	10K	5%	1/6W	
R219	1-247-849-00	CARBON	5.6K	5%	1/6W	
R220	1-247-867-00	CARBON	33K	5%	1/6W	
R221	1-247-869-00	CARBON	39K	5%	1/6W	
R222	1-247-875-00	CARBON	68K	5%	1/6W	
R223	1-247-849-00	CARBON	5.6K	5%	1/6W	
R224	1-247-891-00	CARBON	330K	5%	1/6W	
R225	1-247-879-00	CARBON	100K	5%	1/6W	
R226	1-247-878-00	CARBON	91K	5%	1/6W	

B

Ref.No	Part No.	Description				Remark
R228	1-247-835-00	CARBON	1.5K	5%	1/6W	
R230	1-247-847-00	CARBON	4.7K	5%	1/6W	
R231	1-247-873-00	CARBON	56K	5%	1/6W	
R232	1-247-821-00	CARBON	390	5%	1/6W	
R233	1-247-815-00	CARBON	220	5%	1/6W	
R234	1-247-815-00	CARBON	220	5%	1/6W	
R235	1-247-823-00	CARBON	470	5%	1/6W	
R236	1-247-807-00	CARBON	100	5%	1/6W	
R237	1-247-815-00	CARBON	220	5%	1/6W	
R238	1-247-867-00	CARBON	33K	5%	1/6W	
R239	1-247-877-00	CARBON	82K	5%	1/6W	
R240	1-247-838-00	CARBON	2K	5%	1/6W	
R241	1-247-863-00	CARBON	22K	5%	1/6W	
R242	1-247-854-00	CARBON	9.1K	5%	1/6W	
R243	1-247-857-00	CARBON	12K	5%	1/6W	
R244	1-247-843-00	CARBON	3.3K	5%	1/6W	
R245	1-247-849-00	CARBON	5.6K	5%	1/6W	
R246	1-247-855-00	CARBON	10K	5%	1/6W	
R247	1-247-859-00	CARBON	15K	5%	1/6W	
R248	1-247-839-00	CARBON	2.2K	5%	1/6W	
R249	1-247-871-00	CARBON	47K	5%	1/6W	
R250	1-247-885-00	CARBON	180K	5%	1/6W	
R251	1-247-849-00	CARBON	5.6K	5%	1/6W	
R252	1-247-853-00	CARBON	8.2K	5%	1/6W	
R253	1-247-843-00	CARBON	3.3K	5%	1/6W	
R254	1-247-855-00	CARBON	10K	5%	1/6W	
R255	1-247-831-00	CARBON	1K	5%	1/6W	
R256	1-247-853-00	CARBON	8.2K	5%	1/6W	
R258	1-247-839-00	CARBON	2.2K	5%	1/6W	
R259	1-247-853-00	CARBON	8.2K	5%	1/6W	
R260	1-247-875-00	CARBON	68K	5%	1/6W	
R261	1-247-855-00	CARBON	10K	5%	1/6W	
R262	1-247-879-00	CARBON	100K	5%	1/6W	
R263	1-247-855-00	CARBON	10K	5%	1/6W	
R264	1-247-875-00	CARBON	68K	5%	1/6W	
R265	1-247-855-00	CARBON	10K	5%	1/6W	
R266	1-247-855-00	CARBON	10K	5%	1/6W	
R267	1-247-863-00	CARBON	22K	5%	1/6W	
R268	1-247-875-00	CARBON	68K	5%	1/6W	
R269	1-247-855-00	CARBON	10K	5%	1/6W	
R270	1-247-827-00	CARBON	680	5%	1/6W	
R271	1-246-521-00	CARBON	100K	5%	1/4W	
R272	1-246-517-00	CARBON	68K	5%	1/4W	
R273	1-246-545-00	CARBON	1M	5%	1/4W	
R274	1-246-513-00	CARBON	47K	5%	1/4W	
R275	1-247-855-00	CARBON	10K	5%	1/6W	
R276	1-247-859-00	CARBON	15K	5%	1/6W	
R277	1-247-829-00	CARBON	820	5%	1/6W	
R278	1-247-849-00	CARBON	5.6K	5%	1/6W	
R279	1-246-509-00	CARBON	33K	5%	1/4W	
R280	1-247-871-00	CARBON	47K	5%	1/6W	
R281	1-247-859-00	CARBON	15K	5%	1/6W	
R282	1-247-839-00	CARBON	2.2K	5%	1/8W	F

Ref.No	Part No.	Description				Remark
R283	1-247-847-00	CARBON	4.7K	5%	1/6W	
R284	1-247-853-00	CARBON	8.2K	5%	1/6W	
R285	1-247-843-00	CARBON	3.3K	5%	1/6W	
R286	1-247-843-00	CARBON	3.3K	5%	1/6W	
R287	1-247-903-00	CARBON	1M	5%	1/6W	
R288	1-247-879-00	CARBON	100K	5%	1/6W	
R290	1-247-855-00	CARBON	10K	5%	1/6W	
R291	1-247-855-00	CARBON	10K	5%	1/6W	
R292	1-246-401-00	CARBON	1	5%	1/4W	
R293	1-247-841-00	CARBON	2.7K	5%	1/6W	
R294	1-247-807-00	CARBON	100	5%	1/6W	
R295	1-247-847-00	CARBON	4.7K	5%	1/6W	
R296	1-246-521-00	CARBON	100K	5%	1/4W	
R297	1-247-871-00	CARBON	47K	5%	1/6W	
R298	1-247-871-00	CARBON	47K	5%	1/6W	
R299	1-247-823-00	CARBON	470	5%	1/6W	
R301	1-247-658-00	CARBON	47	5%	1/4W	F
R302	1-247-871-00	CARBON	47K	5%	1/6W	
R303	1-247-831-00	CARBON	1K	5%	1/6W	
R304	1-247-831-00	CARBON	1K	5%	1/6W	
R305	1-247-831-00	CARBON	1K	5%	1/6W	
R306	1-247-883-00	CARBON	150K	5%	1/6W	
R307	1-247-819-00	CARBON	330	5%	1/6W	
R308	1-247-865-00	CARBON	27K	5%	1/6W	
R309	1-247-815-00	CARBON	220	5%	1/6W	
R310	1-247-843-00	CARBON	3.3K	5%	1/6W	
R311	1-247-872-00	CARBON	51K	5%	1/6W	
R312	1-247-839-00	CARBON	2.2K	5%	1/6W	
R313	1-247-847-00	CARBON	4.7K	5%	1/6W	
R314	1-247-867-00	CARBON	33K	5%	1/6W	
R315	1-247-835-00	CARBON	1.5K	5%	1/6W	
R316	1-247-835-00	CARBON	1.5K	5%	1/6W	
R317	1-246-469-00	CARBON	680	5%	1/4W	
R318	1-247-813-00	CARBON	180	5%	1/6W	
R319	1-247-823-00	CARBON	470	5%	1/6W	
R322	1-247-851-00	CARBON	6.8K	5%	1/6W	
R324	1-246-473-00	CARBON	1K	5%	1/4W	
R325	1-247-855-00	CARBON	10K	5%	1/6W	
R326	1-247-845-00	CARBON	3.9K	5%	1/6W	
R328	1-247-838-00	CARBON	2K	5%	1/6W	
R329	1-247-845-00	CARBON	3.9K	5%	1/6W	
R332	1-247-873-00	CARBON	56K	5%	1/6W	
R335	1-247-871-00	CARBON	47K	5%	1/6W	
R336	1-247-863-00	CARBON	22K	5%	1/6W	
R337	1-247-875-00	CARBON	68K	5%	1/6W	
R338	1-247-855-00	CARBON	10K	5%	1/6W	
R339	1-247-839-00	CARBON	2.2K	5%	1/6W	
R340	1-247-815-00	CARBON	220	5%	1/6W	
R341	1-247-855-00	CARBON	10K	5%	1/6W	
R342	1-247-841-00	CARBON	2.7K	5%	1/6W	
R343	1-247-831-00	CARBON	1K	5%	1/6W	
R344	1-247-831-00	CARBON	1K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R345	1-247-841-00	CARBON	2.7K	5%	1/6W	
R346	1-247-841-00	CARBON	2.7K	5%	1/6W	
R347	1-247-845-00	CARBON	3.9K	5%	1/6W	
R348	1-247-857-00	CARBON	12K	5%	1/6W	
R349	1-247-855-00	CARBON	10K	5%	1/6W	
		VARIABLE RESISTOR				
RV101	1-228-718-00	RES, ADJ, CERAMIC CARBON 330				
RV103	1-228-722-00	RES, ADJ, CERAMIC CARBON 3.3K				
RV104	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K				
RV105	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K				
RV106	1-228-722-00	RES, ADJ, CERAMIC CARBON 3.3K				
RV107	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K				
RV108	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV109	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV110	1-228-719-00	RES, ADJ, CERAMIC CARBON 470				
RV111	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K				
		SWITCH				
S1	1-553-725-00	SWITCH, SLIDE				
S2	1-553-725-00	SWITCH, SLIDE				
S3	1-553-725-00	SWITCH, SLIDE				
		TRANSFORMER				
T101	1-408-513-00	COIL (VARIABLE)				
T102	1-409-193-00	COIL 3.58MHZ TRAP				
T103	1-409-193-00	COIL 3.58MHZ TRAP				
T104	1-404-081-00	TRANSFOMER, DELAY ADJUST				
T201	1-404-146-00	TRANSFORMER				
T202	1-408-532-00	COIL, VARIABLE				
T203	1-408-532-00	COIL, VARIABLE				
T204	1-408-513-00	COIL (VARIABLE)				
		THERMISTOR				
TH101	1-800-070-XX	THERMISTOR TH-4700				
TH201	1-800-626-00	THERMISTOR				
		CRYSTAL				
X101	1-527-396-00	CRYSTAL, OSC				
X102	1-527-345-00	CRYSTAL, OSC				
**********						
♣:	1-612-243-11	F BOARD				
		*******				
		CAPACITOR				
C681	1-130-238-00	MYLAR	0.22MF	20%	300V	
C682	1-130-238-00	MYLAR	0.22MF	20%	300V	
C683	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C684	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C685	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C686	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C687	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C688	1-102-222-00	CERAMIC	0.001MF	20%	250V	
C689	1-125-287-00	ELECT(BLOCK)	430MF		400V	
C691	1-102-085-00	CERAMIC	0.0047MF		500V	
		DIODE				
D681	8-719-911-55	DIODE U05G				
		CONNECTOR				
F1	♣: 1-506-348-XX	6P PLUG				
F2	♣: 1-508-765-00	3P PLUG (M)				
F3	♣: 1-508-765-00	3P PLUG (M)				
		FUSE				
F601	⚠ 1-532-237-00	FUSE, TIME-LAG				
	1-533-087-00	HOLDER, FUSE, F601				
		RESISTOR				
R681	1-214-947-00	METAL	2.7M	1%	1/2W	
R682	1-205-653-00	CEMENTED	100	5%	5W	
		TRANSFORMER				
T651	1-421-352-00	TRANSFORMER, FERRITE				
T652	1-421-352-00	TRANSFORMER, FERRITE				
		THERMISTOR				
TH601	1-800-820-00	THERMISTOR, POWER				
THP601	1-806-387-00	THERMISTOR (POSITIVE)				
**********						
♣:	A-1275-050-A	Q BOARD, COMPLETE				
		**********				
	1-536-843-11	TERMINAL BOARD, INPUT/OUTPUT(B)				
	4-330-414-00	HEAT SINK (O.W)				
♣:	4-603-275-00	LOCK, SCREW				
		CAPACITOR				
C402	1-123-356-00	ELECT	10MF	20%	25V	
C403	1-102-953-00	CERAMIC	18PF	5%	50V	
C405	1-123-380-00	ELECT	1MF	20%	50V	
C407	1-123-356-00	ELECT	10MF	20%	25V	
C408	1-102-953-00	CERAMIC	18PF	5%	50V	
C410	1-123-380-00	ELECT	1MF	20%	50V	
C412	1-123-356-00	ELECT	10MF	20%	25V	
C413	1-102-953-00	CERAMIC	18PF	5%	50V	
C415	1-123-380-00	ELECT	1MF	20%	50V	
C417	1-123-332-00	ELECT	47MF	20%	25V	
C419	1-106-212-00	MYLAR	0.047MF	10%	100V	
C420	1-123-380-00	ELECT	1MF	20%	50V	
C422	1-106-212-00	MYLAR	0.047MF	10%	100V	
C423	1-123-380-00	ELECT	1MF	20%	50V	
C424	1-123-332-00	ELECT	47MF	20%	25V	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description			Remark
C426	1-123-234-00	ELECT	10MF	20%	50V
C428	1-123-234-00	ELECT	10MF	20%	50V
C430	1-123-234-00	ELECT	10MF	20%	50V
C432	1-123-332-00	ELECT	47MF	20%	25V
C433	1-123-356-00	ELECT	10MF	20%	25V
C434	1-102-773-00	CERAMIC	330PF	5%	50V
C435	1-123-332-00	ELECT	47MF	20%	25V
C436	1-101-006-00	CERAMIC	0.047MF		50V
C437	1-123-234-00	ELECT	10MF	20%	50V
C438	1-123-369-00	ELECT	4.7MF	20%	25V
C441	1-101-006-00	CERAMIC	0.047MF		50V
C443	1-106-212-00	MYLAR	0.047MF	10%	100V
C444	1-108-377-00	MYLAR	0.01MF	10%	100V
C446	1-123-380-00	ELECT	1MF	20%	50V
C447	1-123-380-00	ELECT	1MF	20%	50V
C448	1-123-380-00	ELECT	1MF	20%	50V
C452	1-123-382-00	ELECT	3.3MF	20%	50V
C453	1-123-228-00	ELECT	1MF	20%	50V
C455	1-101-006-00	CERAMIC	0.047MF		50V
C457	1-102-773-00	CERAMIC	330PF	5%	50V
C459	1-102-773-00	CERAMIC	330PF	5%	50V
C461	1-102-773-00	CERAMIC	330PF	5%	50V
C463	1-123-356-00	ELECT	10MF	20%	25V
C464	1-123-332-00	ELECT	47MF	20%	25V
C466	1-123-332-00	ELECT	47MF	20%	25V
C467	1-101-006-00	CERAMIC	0.047MF		50V
C468	1-101-006-00	CERAMIC	0.047MF		50V
C469	1-108-377-00	MYLAR	0.01MF	10%	100V
C489	1-123-332-00	ELECT	47MF	20%	25V
C490	1-123-332-00	ELECT	47MF	20%	25V
C491	1-123-332-00	ELECT	47MF	20%	25V
C492	1-123-332-00	ELECT	47MF	20%	25V
C493	1-102-766-00	CERAMIC	150PF	5%	50V
C494	1-108-377-00	MYLAR	0.01MF	10%	100V
C495	1-101-006-00	CERAMIC	0.047MF		50V
C497	1-123-356-00	ELECT	10MF	20%	25V

CONNECTOR

CN407	♣:1-562-243-00	CONNECTOR 25P

DIODE

D401	8-719-911-19	DIODE 1SS119
D402	8-719-911-19	DIODE 1SS119
D403	8-719-911-19	DIODE 1SS119
D404	8-719-100-37	DIODE RD6.2E-B1
D405	8-719-100-37	DIODE RD6.2E-B1
D406	8-719-100-37	DIODE RD6.2E-B1
D407	8-719-100-37	DIODE RD6.2E-B1
D408	8-719-911-19	DIODE 1SS119
D409	8-719-911-19	DIODE 1SS119
D410	8-719-911-19	DIODE 1SS119
D411	8-719-911-19	DIODE 1SS119
D412	8-719-911-19	DIODE 1SS119
D414	8-719-911-19	DIODE 1SS119
D415	8-719-911-19	DIODE 1SS119
D416	8-719-911-19	DIODE 1SS119
D418	8-719-100-37	DIODE RD6.2E-B1
D419	8-719-100-37	DIODE RD6.2E-B1
D420	8-719-911-19	DIODE 1SS119
D422	8-719-100-37	DIODE RD6.2E-B1
D423	8-719-100-22	DIODE RD4.3E-B1
D424	8-719-911-19	DIODE 1SS119
D425	8-719-100-26	DIODE RD4.7E-B1
D435	8-719-911-19	DIODE 1SS119
D436	8-719-911-19	DIODE 1SS119
D437	8-719-911-19	DIODE 1SS119

FUSE

F402	⚠.1-532-078-00	FUSE, TIME-LAG
	1-533-087-00	HOLDER, FUSE, F402
F404	⚠.1-532-279-00	FUSE, TIME-LAG
	1-533-087-00	HOLDER, FUSE, F404

IC

IC401	8-752-201-90	IC CX22019
IC402	8-759-900-09	IC SN74LS09N
IC403	8-759-901-36	IC SN74LS136N
IC404	8-759-900-08	IC SN74LS08N
IC405	8-759-900-08	IC SN74LS08N
IC406	8-759-900-04	IC SN74LS04N
IC407	8-759-900-00	IC SN74LS00N
IC408	8-759-900-20	IC SN74LS20N
IC409	8-759-901-38	IC SN74LS138N

COIL

L401	1-408-412-00	MICRO INDUCTOR 18UH
L402	1-408-412-00	MICRO INDUCTOR 18UH
L403	1-408-412-00	MICRO INDUCTOR 18UH
L407	1-408-163-00	MICRO INDUCTOR 5.6MMH

CONNECTOR

Q1	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
Q2	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
Q3	♣:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
Q4	♣:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
Q5	♣:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
Q7	♣:1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)

TRANSISTOR

Q401	8-729-204-83	TRANSISTOR 2SA1048-GR
Q402	8-729-245-83	TRANSISTOR 2SC2458
Q403	8-729-204-83	TRANSISTOR 2SA1048-GR
Q404	8-729-245-83	TRANSISTOR 2SC2458
Q405	8-729-204-83	TRANSISTOR 2SA1048-GR
Q406	8-729-245-83	TRANSISTOR 2SC2458

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description	Remark
Q407	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q408	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q409	8-729-245-83	TRANSISTOR 2SC2458	
Q410	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q411	8-729-245-83	TRANSISTOR 2SC2458	
Q412	8-729-245-83	TRANSISTOR 2SC2458	
Q413	8-729-245-83	TRANSISTOR 2SC2458	
Q414	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q415	8-729-245-83	TRANSISTOR 2SC2458	
Q416	8-729-245-83	TRANSISTOR 2SC2458	
Q417	8-729-245-83	TRANSISTOR 2SC2458	
Q418	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q419	8-729-245-83	TRANSISTOR 2SC2458	
Q420	8-729-245-83	TRANSISTOR 2SC2458	
Q421	8-729-245-83	TRANSISTOR 2SC2458	
Q422	8-729-245-83	TRANSISTOR 2SC2458	
Q423	8-729-245-83	TRANSISTOR 2SC2458	
Q424	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q425	8-729-245-83	TRANSISTOR 2SC2458	
Q426	8-729-245-83	TRANSISTOR 2SC2458	
Q428	8-729-245-83	TRANSISTOR 2SC2458	
Q429	8-729-245-83	TRANSISTOR 2SC2458	
Q430	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q431	8-729-245-83	TRANSISTOR 2SC2458	
Q433	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q434	8-729-245-83	TRANSISTOR 2SC2458	
Q435	8-729-245-83	TRANSISTOR 2SC2458	
Q442	8-729-245-83	TRANSISTOR 2SC2458	
Q443	8-729-245-83	TRANSISTOR 2SC2458	
Q444	8-729-245-83	TRANSISTOR 2SC2458	
Q445	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q446	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q447	8-729-245-83	TRANSISTOR 2SC2458	
Q448	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q449	8-729-245-83	TRANSISTOR 2SC2458	
Q450	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q451	8-729-245-83	TRANSISTOR 2SC2458	
Q452	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q453	8-729-245-83	TRANSISTOR 2SC2458	
Q454	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q455	8-729-245-83	TRANSISTOR 2SC2458	
Q456	8-729-245-83	TRANSISTOR 2SC2458	
Q457	8-729-204-83	TRANSISTOR 2SA1048-GR	

RESISTOR

R351	1-247-855-00	CARBON	10K	5%	1/6W
R352	1-247-815-00	CARBON	220	5%	1/6W
R353	1-247-855-00	CARBON	10K	5%	1/6W
R354	1-247-815-00	CARBON	220	5%	1/6W
R355	1-247-807-00	CARBON	100	5%	1/6W
R356	1-246-469-00	CARBON	680	5%	1/4W
R357	1-246-469-00	CARBON	680	5%	1/4W
R358	1-247-827-00	CARBON	680	5%	1/6W
R359	1-247-827-00	CARBON	680	5%	1/6W

Ref.No	Part No.	Description			Remark
R361	1-246-469-00	CARBON	680	5%	1/4W
R362	1-246-469-00	CARBON	680	5%	1/4W
R364	1-247-827-00	CARBON	680	5%	1/6W
R365	1-246-469-00	CARBON	680	5%	1/4W
R366	1-246-457-00	CARBON	220	5%	1/4W
R367	1-246-457-00	CARBON	220	5%	1/4W
R368	1-247-855-00	CARBON	10K	5%	1/6W
R369	1-247-815-00	CARBON	220	5%	1/6W
R370	1-247-815-00	CARBON	220	5%	1/6W
R371	1-247-843-00	CARBON	3.3K	5%	1/6W
R372	1-246-485-00	CARBON	3.3K	5%	1/4W
R373	1-246-537-00	CARBON	470K	5%	1/4W
R374	1-247-871-00	CARBON	47K	5%	1/6W
R377	1-247-845-00	CARBON	3.9K	5%	1/6W
R378	1-247-855-00	CARBON	10K	5%	1/6W
R379	1-246-469-00	CARBON	680	5%	1/4W
R401	1-247-104-00	CARBON	75	5%	1/4W
R402	1-246-473-00	CARBON	1K	5%	1/4W
R403	1-247-878-00	CARBON	91K	5%	1/6W
R404	1-247-831-00	CARBON	1K	5%	1/6W
R405	1-247-865-00	CARBON	27K	5%	1/6W
R406	1-247-853-00	CARBON	8.2K	5%	1/6W
R407	1-247-831-00	CARBON	1K	5%	1/6W
R408	1-247-104-00	CARBON	75	5%	1/4W
R409	1-246-473-00	CARBON	1K	5%	1/4W
R410	1-247-878-00	CARBON	91K	5%	1/6W
R411	1-247-831-00	CARBON	1K	5%	1/6W
R412	1-247-865-00	CARBON	27K	5%	1/6W
R413	1-247-853-00	CARBON	8.2K	5%	1/6W
R414	1-247-831-00	CARBON	1K	5%	1/6W
R415	1-247-104-00	CARBON	75	5%	1/4W
R416	1-246-473-00	CARBON	1K	5%	1/4W
R417	1-247-878-00	CARBON	91K	5%	1/6W
R418	1-247-831-00	CARBON	1K	5%	1/6W
R419	1-247-865-00	CARBON	27K	5%	1/6W
R420	1-247-853-00	CARBON	8.2K	5%	1/6W
R421	1-247-831-00	CARBON	1K	5%	1/6W
R422	1-246-515-00	CARBON	56K	5%	1/4W
R423	1-247-885-00	CARBON	180K	5%	1/6W
R424	1-247-877-00	CARBON	82K	5%	1/6W
R425	1-247-871-00	CARBON	47K	5%	1/6W
R426	1-247-851-00	CARBON	6.8K	5%	1/6W
R427	1-247-847-00	CARBON	4.7K	5%	1/6W
R428	1-246-515-00	CARBON	56K	5%	1/4W
R429	1-247-885-00	CARBON	180K	5%	1/6W
R430	1-247-877-00	CARBON	82K	5%	1/6W
R431	1-247-871-00	CARBON	47K	5%	1/6W
R432	1-247-851-00	CARBON	6.8K	5%	1/6W
R433	1-247-847-00	CARBON	4.7K	5%	1/6W
R434	1-247-807-00	CARBON	100	5%	1/6W
R435	1-247-879-00	CARBON	100K	5%	1/6W
R436	1-247-103-00	CARBON	68	5%	1/4W
R437	1-246-473-00	CARBON	1K	5%	1/4W

Q

Ref.No	Part No.	Description				Remark
R438	1-247-839-00	CARBON	2.2K	5%	1/6W	
R439	1-246-497-00	CARBON	10K	5%	1/4W	
R440	1-247-878-00	CARBON	91K	5%	1/6W	
R442	1-247-865-00	CARBON	27K	5%	1/6W	
R443	1-247-853-00	CARBON	8.2K	5%	1/6W	
R444	1-247-103-00	CARBON	68	5%	1/4W	
R445	1-246-473-00	CARBON	1K	5%	1/4W	
R446	1-247-839-00	CARBON	2.2K	5%	1/6W	
R447	1-246-497-00	CARBON	10K	5%	1/4W	
R448	1-247-878-00	CARBON	91K	5%	1/6W	
R450	1-247-865-00	CARBON	27K	5%	1/6W	
R451	1-247-853-00	CARBON	8.2K	5%	1/6W	
R452	1-247-103-00	CARBON	68	5%	1/4W	
R453	1-246-473-00	CARBON	1K	5%	1/4W	
R454	1-247-839-00	CARBON	2.2K	5%	1/6W	
R455	1-246-497-00	CARBON	10K	5%	1/4W	
R456	1-247-878-00	CARBON	91K	5%	1/6W	
R458	1-247-865-00	CARBON	27K	5%	1/6W	
R459	1-247-853-00	CARBON	8.2K	5%	1/6W	
R460	1-247-107-00	CARBON	100	5%	1/4W	
R461	1-247-839-00	CARBON	2.2K	5%	1/6W	
R462	1-247-831-00	CARBON	1K	5%	1/6W	
R463	1-247-845-00	CARBON	3.9K	5%	1/6W	
R465	1-247-835-00	CARBON	1.5K	5%	1/6W	
R466	1-247-819-00	CARBON	330	5%	1/6W	
R467	1-247-829-00	CARBON	820	5%	1/6W	
R468	1-247-835-00	CARBON	1.5K	5%	1/6W	
R469	1-247-819-00	CARBON	330	5%	1/6W	
R470	1-247-829-00	CARBON	820	5%	1/6W	
R471	1-247-835-00	CARBON	1.5K	5%	1/6W	
R472	1-247-819-00	CARBON	330	5%	1/6W	
R473	1-247-829-00	CARBON	820	5%	1/6W	
R474	1-247-847-00	CARBON	4.7K	5%	1/6W	
R475	1-247-853-00	CARBON	8.2K	5%	1/6W	
R476	1-247-831-00	CARBON	1K	5%	1/6W	
R477	1-247-847-00	CARBON	4.7K	5%	1/6W	
R478	1-247-847-00	CARBON	4.7K	5%	1/6W	
R479	1-247-847-00	CARBON	4.7K	5%	1/6W	
R480	1-247-103-00	CARBON	68	5%	1/4W	
R481	1-246-481-00	CARBON	2.2K	5%	1/4W	
R482	1-247-839-00	CARBON	2.2K	5%	1/6W	
R483	1-247-807-00	CARBON	100	5%	1/6W	
R484	1-247-855-00	CARBON	10K	5%	1/6W	
R485	1-247-878-00	CARBON	91K	5%	1/6W	
R486	1-247-865-00	CARBON	27K	5%	1/6W	
R487	1-247-853-00	CARBON	8.2K	5%	1/6W	
R488	1-246-457-00	CARBON	220	5%	1/4W	
R489	1-246-489-00	CARBON	4.7K	5%	1/4W	
R490	1-247-835-00	CARBON	1.5K	5%	1/6W	
R491	1-247-839-00	CARBON	2.2K	5%	1/6W	
R492	1-247-829-00	CARBON	820	5%	1/6W	
R493	1-247-819-00	CARBON	330	5%	1/6W	
R494	1-247-847-00	CARBON	4.7K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R495	1-247-863-00	CARBON	22K	5%	1/6W	
R496	1-247-871-00	CARBON	47K	5%	1/6W	
R497	1-247-855-00	CARBON	10K	5%	1/6W	
R499	1-247-819-00	CARBON	330	5%	1/6W	
R1401	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1402	1-247-831-00	CARBON	1K	5%	1/6W	
R1403	1-247-861-00	CARBON	18K	5%	1/6W	
R1404	1-247-845-00	CARBON	3.9K	5%	1/6W	
R1405	1-247-855-00	CARBON	10K	5%	1/6W	
R1406	1-247-843-00	CARBON	3.3K	5%	1/6W	
R1413	1-246-487-00	CARBON	3.9K	5%	1/4W	
R1414	1-246-465-00	CARBON	470	5%	1/4W	
R1415	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1417	1-247-823-00	CARBON	470	5%	1/6W	
R1419	1-247-835-00	CARBON	1.5K	5%	1/6W	
R1420	1-247-847-00	CARBON	4.7K	5%	1/6W	
R1421	1-247-831-00	CARBON	1K	5%	1/6W	
R1423	1-247-827-00	CARBON	680	5%	1/6W	
R1432	1-247-855-00	CARBON	10K	5%	1/6W	
R1433	1-247-843-00	CARBON	3.3K	5%	1/6W	
R1434	1-247-848-00	CARBON	5.1K	5%	1/6W	
R1435	1-247-833-00	CARBON	1.2K	5%	1/6W	
R1436	1-247-859-00	CARBON	15K	5%	1/6W	
R1437	1-247-855-00	CARBON	10K	5%	1/6W	
R1438	1-247-849-00	CARBON	5.6K	5%	1/6W	
R1439	1-247-847-00	CARBON	4.7K	5%	1/6W	
R1441	1-247-863-00	CARBON	22K	5%	1/6W	
R1442	1-247-901-00	CARBON	820K	5%	1/6W	
R1443	1-247-901-00	CARBON	820K	5%	1/6W	
R1444	1-247-901-00	CARBON	820K	5%	1/6W	
R1445	1-247-867-00	CARBON	33K	5%	1/6W	
R1446	1-247-867-00	CARBON	33K	5%	1/6W	
R1447	1-246-527-00	CARBON	180K	5%	1/4W	
R1448	1-247-849-00	CARBON	5.6K	5%	1/6W	
R1449	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1451	1-247-831-00	CARBON	1K	5%	1/6W	
R1452	1-247-843-00	CARBON	3.3K	5%	1/6W	
R1453	1-247-831-00	CARBON	1K	5%	1/6W	
R1454	1-247-843-00	CARBON	3.3K	5%	1/6W	
R1455	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1456	1-247-823-00	CARBON	470	5%	1/6W	
R1457	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1458	1-247-799-00	CARBON	47	5%	1/6W	
R1459	1-247-825-00	CARBON	560	5%	1/6W	
R1460	1-247-791-00	CARBON	22	5%	1/6W	
R1461	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1462	1-247-823-00	CARBON	470	5%	1/6W	
R1463	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1464	1-247-799-00	CARBON	47	5%	1/6W	
R1465	1-247-825-00	CARBON	560	5%	1/6W	
R1466	1-247-791-00	CARBON	22	5%	1/6W	
R1467	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1468	1-247-823-00	CARBON	470	5%	1/6W	

Ref.No	Part No.	Description				Remark
R1469	1-247-839-00	CARBON	2.2K	5%	1/6W	
R1470	1-247-799-00	CARBON	47	5%	1/6W	
R1471	1-247-825-00	CARBON	560	5%	1/6W	
R1472	1-247-791-00	CARBON	22	5%	1/6W	
R1473	1-247-853-00	CARBON	8.2K	5%	1/6W	
R1474	1-247-851-00	CARBON	6.8K	5%	1/6W	
R1475	1-247-855-00	CARBON	10K	5%	1/6W	
R1476	1-247-815-00	CARBON	220	5%	1/6W	
R1477	1-247-815-00	CARBON	220	5%	1/6W	
R1478	1-247-815-00	CARBON	220	5%	1/6W	
R1479	1-247-847-00	CARBON	4.7K	5%	1/6W	
R1480	1-247-847-00	CARBON	4.7K	5%	1/6W	
R1481	1-247-831-00	CARBON	1K	5%	1/6W	
R1482	1-247-855-00	CARBON	10K	5%	1/6W	
R1483	1-247-855-00	CARBON	10K	5%	1/6W	
R1484	1-246-497-00	CARBON	10K	5%	1/4W	
R1485	1-246-457-00	CARBON	220	5%	1/4W	
R1486	1-246-497-00	CARBON	10K	5%	1/4W	
R1487	1-246-457-00	CARBON	220	5%	1/4W	
R1488	1-246-497-00	CARBON	10K	5%	1/4W	
R1489	1-246-457-00	CARBON	220	5%	1/4W	
R1490	1-246-497-00	CARBON	10K	5%	1/4W	
R1492	1-246-457-00	CARBON	220	5%	1/4W	

REGULATOR

REG401	8-759-171-05	IC UPC7805H
REG402	8-759-700-60	IC UPC7812H

VARIABLE RESISTOR

RV401	1-226-853-00	RES, ADJ, CARBON 47K
RV402	1-226-852-00	RES, ADJ, CARBON 22K
RV403	1-226-852-00	RES, ADJ, CARBON 22K
RV404	1-226-852-00	RES, ADJ, CARBON 22K
RV405	1-226-852-00	RES, ADJ, CARBON 22K

SWITCH

S401	1-553-725-00	SWITCH, SLIDE
S402	1-553-725-00	SWITCH, SLIDE
S403	1-553-725-00	SWITCH, SLIDE

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⚠	A-1330-507-A	C1 BOARD, COMPLETE
		**********
	1-526-616-00	SOCKET, CRT

CAPACITOR

C701	1-123-356-00	ELECT	10MF	20%	25V
C702	1-102-002-00	CERAMIC	680PF	10%	500V
C703	1-123-356-00	ELECT	10MF	20%	25V
C704	1-102-002-00	CERAMIC	680PF	10%	500V
C705	1-123-356-00	ELECT	10MF	20%	25V
C706	1-102-002-00	CERAMIC	680PF	10%	500V
C707	1-123-356-00	ELECT	10MF	20%	25V
C708	1-121-759-00	ELECT	4.7MF		250V
C709	1-102-038-00	CERAMIC	0.001MF		500V
C710	1-108-433-00	MYLAR	0.1MF	10%	200V
C711	1-123-356-00	ELECT	10MF	20%	50V
C712	1-129-737-00	FILM	0.047MF	20%	630V
C713	1-102-249-00	CERAMIC	680PF	20%	2KV
C714	1-108-595-00	MYLAR	0.047MF	5%	50V

DIODE

D701	8-719-300-76	DIODE RH1A
D702	8-719-300-76	DIODE RH1A
D703	8-719-300-76	DIODE RH1A

COIL

L701	1-408-418-00	MICRO INDUCTOR 56UH
L702	1-408-418-00	MICRO INDUCTOR 56UH
L703	1-408-418-00	MICRO INDUCTOR 56UH
L704	1-408-417-00	MICRO INDUCTOR 47UH
L705	1-407-780-00	COIL, SPOOK CHOKE
L706	1-408-417-00	MICRO INDUCTOR 47UH

NEON LAMP

NL701	1-519-108-XX	LAMP, NEON ASSY

TRANSISTOR

Q701	8-729-245-83	TRANSISTOR 2SC2458
Q702	8-729-326-11	TRANSISTOR 2SC2611
Q703	8-729-245-83	TRANSISTOR 2SC2458
Q704	8-729-326-11	TRANSISTOR 2SC2611
Q705	8-729-245-83	TRANSISTOR 2SC2458
Q706	8-729-326-11	TRANSISTOR 2SC2611
⚠	4-347-706-00	HEAT SINK (TR), Q702, Q704, Q706

RESISTOR

R707	1-247-823-00	CARBON	470	5%	1/6W	
R708	1-247-793-00	CARBON	27	5%	1/6W	
R709	1-247-838-00	CARBON	2K	5%	1/6W	
R710	1-247-815-00	CARBON	220	5%	1/6W	
R711	1-247-791-00	CARBON	22	5%	1/6W	
R712	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R713	1-247-823-00	CARBON	470	5%	1/6W	
R714	1-247-793-00	CARBON	27	5%	1/6W	
R715	1-247-838-00	CARBON	2K	5%	1/6W	
R716	1-247-815-00	CARBON	220	5%	1/6W	
R717	1-247-791-00	CARBON	22	5%	1/6W	
R718	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R719	1-247-823-00	CARBON	470	5%	1/6W	
R720	1-247-793-00	CARBON	27	5%	1/6W	
R721	1-247-838-00	CARBON	2K	5%	1/6W	
R722	1-247-815-00	CARBON	220	5%	1/6W	
R723	1-247-791-00	CARBON	22	5%	1/6W	

Ref.No	Part No.	Description				Remark
R724	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R725	1-202-824-00	SOLID	3.3K		1/2W	
R726	1-202-824-00	SOLID	3.3K		1/2W	
R727	1-202-824-00	SOLID	3.3K		1/2W	
R728	1-202-549-00	SOLID	100	10%	1/2W	
R729	1-202-837-00	SOLID	82K		1/2W	
R730	1-202-846-00	SOLID	470K		1/2W	
R731	1-202-814-51	SOLID	33K		1/2W	
R732	1-202-815-51	SOLID	47K		1/2W	
R733	1-202-846-00	SOLID	470K		1/2W	
R734	1-202-719-00	SOLID	1M	10%	1/2W	
R735	1-202-842-51	SOLID	220K		1/2W	
R736	1-247-795-00	CARBON	33	5%	1/6W	
R737	1-246-525-00	CARBON	150K	5%	1/4W	
R738	1-247-795-00	CARBON	33	5%	1/6W	
R739	1-202-844-00	SOLID	330K		1/2W	

VARIABLE RESISTOR

RV713	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M
RV714	1-226-063-00	RES, ADJ, CARBON 2.2M

SPARK GAP

SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP
SG704	1-519-063-XX	DISCHARGING GAP
SG705	1-519-063-XX	DISCHARGING GAP

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♣:1-612-246-11	C2 BOARD	
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♣:1-560-278-00	PLUG, CONNECTOR 8P	

RESISTOR

R701	1-247-839-00	CARBON	2.2K	5%	1/6W
R702	1-247-823-00	CARBON	470	5%	1/6W
R703	1-247-839-00	CARBON	2.2K	5%	1/6W
R704	1-247-823-00	CARBON	470	5%	1/6W
R705	1-247-839-00	CARBON	2.2K	5%	1/6W
R706	1-247-823-00	CARBON	470	5%	1/6W

VARIABLE RESISTOR

RV701	1-226-819-00	RES, ADJ, CARBON 1K
RV702	1-226-819-00	RES, ADJ, CARBON 1K
RV703	1-226-921-00	RES, ADJ, CARBON 4.7K
RV704	1-226-921-00	RES, ADJ, CARBON 4.7K
RV705	1-226-819-00	RES, ADJ, CARBON 1K
RV706	1-226-819-00	RES, ADJ, CARBON 1K
RV707	1-226-921-00	RES, ADJ, CARBON 4.7K
RV708	1-226-921-00	RES, ADJ, CARBON 4.7K
RV709	1-226-819-00	RES, ADJ, CARBON 1K
RV710	1-226-819-00	RES, ADJ, CARBON 1K
RV711	1-226-921-00	RES, ADJ, CARBON 4.7K
RV712	1-226-921-00	RES, ADJ, CARBON 4.7K

SWITCH

S701	1-516-503-00	SLIDE SWITCH

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♣:A-1345-455-A	D BOARD, COMPLETE	
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3-703-137-00	SCREW, TAPPING	
4-363-414-00	SPACER, MICA	
♣:4-367-226-00	HOLDER, H OUT	

CAPACITOR

C501	1-123-381-00	ELECT	2.2MF	20%	50V
C502	1-123-369-00	ELECT	4.7MF	20%	50V
C503	1-108-555-00	MYLAR	0.001MF	5%	50V
C504	1-108-559-00	MYLAR	0.0015MF	5%	50V
C505	1-102-115-00	CERAMIC	560PF	10%	50V
C506	1-102-529-00	CERAMIC	100PF	5%	50V
C507	1-108-384-00	MYLAR	0.039MF	10%	100V
C508	1-123-380-00	ELECT	1MF	20%	50V
C509	1-108-377-00	MYLAR	0.01MF	10%	100V
C510	1-123-382-00	ELECT	3.3MF	20%	50V
C511	1-123-379-00	ELECT	0.47MF	20%	50V
C513	1-130-640-00	FILM	0.47MF	5%	50V
C514	1-131-369-00	TANTALUM	4.7MF	20%	16V
C515	1-123-356-00	ELECT	10MF	20%	25V
C516	1-106-204-00	MYLAR	0.022MF	10%	100V
C517	1-108-595-00	MYLAR	0.047MF	5%	50V
C518	1-123-321-00	ELECT	220MF	20%	16V
C519	1-102-989-00	CERAMIC	68PF	5%	500V
C520	1-106-204-00	MYLAR	0.022MF	10%	100V
C521	1-108-377-00	MYLAR	0.01MF	10%	100V
C523	1-106-204-00	MYLAR	0.022MF	10%	100V
C524	1-106-180-00	MYLAR	0.0022MF	5%	100V
C525	1-129-794-00	FILM	0.0033MF	5%	100V
C526	1-123-381-00	ELECT	2.2MF	20%	50V
C527	1-123-381-00	ELECT	2.2MF	20%	50V
C528	1-101-006-00	CERAMIC	0.047MF		50V
C531	1-123-381-00	ELECT	2.2MF	20%	50V
C533	1-123-335-00	ELECT	330MF	20%	25V
C534	1-123-379-00	ELECT	0.47MF	20%	50V
C535	1-108-429-00	MYLAR	0.047MF	10%	200V
C536	1-101-810-00	CERAMIC	100PF	5%	500V
C537	1-108-365-00	MYLAR	0.001MF	10%	100V
C538	1-161-961-00	CERAMIC	0.0022MF	10%	3KV
C539	1-108-387-00	MYLAR	0.068MF	10%	100V
C540	1-136-139-00	FILM	0.012MF	3%	2KV
C541	1-129-745-00	FILM	0.033MF	10%	400V
C542	1-102-223-00	CERAMIC	0.0047MF	10%	2KV
C543	1-123-254-00	ELECT	10MF		250V

Ref.No	Part No.	Description			Remark
C544	1-102-038-00	CERAMIC	0.001MF		500V
C545	1-123-333-00	ELECT	100MF	20%	25V
C546	1-102-038-00	CERAMIC	0.001MF		500V
C547	1-136-110-00	FILM	0.91MF	5%	200V
C548	1-108-421-00	MYLAR	0.01MF	10%	200V
C549	1-136-113-00	FILM	2MF	5%	200V
C550	1-129-943-00	FILM	0.68MF	10%	400V
C551	1-123-332-00	ELECT	47MF	20%	16V
C552	1-123-332-00	ELECT	47MF	20%	16V
C553	1-108-377-00	MYLAR	0.01MF	10%	100V
C554	1-123-333-00	ELECT	100MF	20%	25V
C555	1-102-228-00	CERAMIC	470PF	10%	500V
C556	1-123-360-00	ELECT	100MF	20%	50V
C557	1-106-204-00	MYLAR	0.022MF	10%	100V
C559	1-123-330-00	ELECT	22MF	20%	16V
C560	1-108-383-00	MYLAR	0.033MF	10%	100V
C562	1-123-332-00	ELECT	47MF	20%	16V
C563	1-123-332-00	ELECT	47MF	20%	16V
C566	1-108-555-00	MYLAR	0.001MF	5%	50V
C567	1-101-006-00	CERAMIC	0.047MF		50V
C568	1-123-321-00	ELECT	220MF	20%	16V
C569	1-108-377-00	MYLAR	0.01MF	10%	100V
C570	1-108-377-00	MYLAR	0.01MF	10%	100V
C571	1-101-006-00	CERAMIC	0.047MF		50V
C572	1-101-006-00	CERAMIC	0.047MF		50V
C573	1-123-380-00	ELECT	1MF	20%	50V
C575	1-123-024-00	ELECT	33MF		160V
C801	1-123-369-00	ELECT	4.7MF	20%	50V
C802	1-123-369-00	ELECT	4.7MF	20%	50V
C803	1-108-591-00	MYLAR	0.033MF	5%	50V
C804	1-124-192-00	ELECT	4.7MF	20%	50V
C805	1-108-372-00	MYLAR	0.0039MF	10%	100V
C806	1-123-380-00	ELECT	1MF	20%	50V
C807	1-123-332-00	ELECT	47MF	20%	16V
C808	1-123-228-00	ELECT	1MF	20%	50V
C810	1-123-336-00	ELECT	470MF	20%	25V
C813	1-108-435-00	MYLAR	0.15MF	10%	200V

CONNECTOR

D1	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D2	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D3	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D4	▲:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D5	▲:1-508-767-00	5P PLUG
D6	▲:1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
D7	▲:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D8	▲:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P

DIODE

D501	8-719-102-60	DIODE RD3.9E-N2
D502	8-719-911-19	DIODE 1SS119
D504	8-719-911-19	DIODE 1SS119
D509	8-719-305-15	DIODE GH3F
D510	8-719-928-08	DIODE ERD28-08
D511	8-719-903-09	DIODE V30N
D512	8-719-901-93	DIODE V19E
D513	8-719-901-93	DIODE V19E
D514	8-719-911-55	DIODE U05G
D515	8-719-901-93	DIODE V19E
D516	8-719-911-19	DIODE 1SS119
D517	8-719-911-55	DIODE U05G
D518	8-719-911-55	DIODE U05G
D519	8-719-911-55	DIODE U05G
D520	8-719-911-19	DIODE 1SS119
D521	8-719-911-19	DIODE 1SS119
D524	8-719-911-19	DIODE 1SS119
D525	8-719-102-82	DIODE 7.5E-N3

IC

IC501	8-759-100-60	IC UPC1377C
IC502	8-759-979-16	IC CX7916
IC504	8-759-145-58	IC UPC4558C
IC505	8-759-113-78	IC UPC1378H-L
IC801	8-759-905-39	IC TDA1082

COIL

L501	1-408-242-00	MICRO INDUCTOR 10MMH
L502	1-407-780-00	COIL, SPOOK CHOKE
L503	1-407-365-00	COIL, CHOKE
L504	1-459-390-00	COIL (WITH CORE)
L505	1-421-368-00	COIL, VAR FERRITE (HLC)
L506	1-408-239-00	MICRO INDUCTOR 4.7MMH
L507	1-459-104-00	COIL, DUST CORE
L508	1-408-242-00	MICRO INDUCTOR 10MMH
L509	1-421-329-00	COIL, CHOKE
L801	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE
L802	1-459-338-00	COIL, VAR, FERRITE (PAC)

TRANSISTOR

Q501	8-729-384-48	TRANSISTOR 2SA844
Q502	8-729-245-83	TRANSISTOR 2SC2458
Q503	8-729-900-36	TRANSISTOR DTC124ES
Q504	8-729-900-36	TRANSISTOR DTC124ES
Q505	8-729-900-36	TRANSISTOR DTC124ES
Q506	8-729-900-36	TRANSISTOR DTC124ES
Q507	8-729-900-63	TRANSISTOR DTA124ES
Q508	8-729-168-82	TRANSISTOR 2SC2688
Q509	8-729-800-87	TRANSISTOR 2SD1398-CA
Q510	8-729-245-83	TRANSISTOR 2SC2458
Q512	8-729-177-43	TRANSISTOR 2SD774
Q801	8-729-313-42	TRANSISTOR 2SD1134
Q802	8-729-245-83	TRANSISTOR 2SC2458
Q805	8-729-245-83	TRANSISTOR 2SC2458
Q850	8-729-384-48	TRANSISTOR 2SA844

RESISTOR

R501	1-247-835-00	CARBON	1.5K	5%	1/6W

D

Ref.No	Part No.	Description				Remark
R502	1-247-823-00	CARBON	470	5%	1/6W	
R503	1-247-823-00	CARBON	470	5%	1/6W	
R504	1-247-831-00	CARBON	1K	5%	1/6W	
R505	1-247-855-00	CARBON	10K	5%	1/6W	
R506	1-247-839-00	CARBON	2.2K	5%	1/6W	
R507	1-247-833-00	CARBON	1.2K	5%	1/6W	
R508	1-247-835-00	CARBON	1.5K	5%	1/6W	
R509	1-247-839-00	CARBON	2.2K	5%	1/6W	
R510	1-247-865-00	CARBON	27K	5%	1/6W	
R511	1-215-459-00	METAL	39K	1%	1/6W	
R512	1-247-877-00	CARBON	82K	5%	1/6W	
R513	1-247-855-00	CARBON	10K	5%	1/6W	
R514	1-215-475-00	METAL	180K	1%	1/6W	
R515	1-215-463-00	METAL	56K	1%	1/6W	
R518	1-215-478-00	METAL	240K	1%	1/6W	
R519	1-215-463-00	METAL	56K	1%	1/6W	
R520	1-247-819-00	CARBON	330	5%	1/6W	
R521	1-247-827-00	CARBON	680	5%	1/6W	
R522	1-247-827-00	CARBON	680	5%	1/6W	
R523	1-247-823-00	CARBON	470	5%	1/6W	
R524	1-247-849-00	CARBON	5.6K	5%	1/6W	
R525	1-247-835-00	CARBON	1.5K	5%	1/6W	
R526	1-247-851-00	CARBON	6.8K	5%	1/6W	
R527	1-247-857-00	CARBON	12K	5%	1/6W	
R528	1-247-847-00	CARBON	4.7K	5%	1/6W	
R529	1-215-471-00	METAL	120K	1%	1/6W	
R530	1-215-465-00	METAL	68K	1%	1/6W	
R531	1-247-835-00	CARBON	1.5K	5%	1/6W	
R532	1-246-992-00	CARBON	180	5%	1/8W	F
R533	1-247-851-00	CARBON	6.8K	5%	1/8W	
R534	1-247-835-00	CARBON	1.5K	5%	1/6W	
R535	1-215-456-00	METAL	30K	1%	1/6W	
R536	1-247-857-00	CARBON	12K	5%	1/6W	
R537	1-247-879-00	CARBON	100K	5%	1/6W	
R538	1-247-847-00	CARBON	4.7K	5%	1/6W	
R540	1-247-859-00	CARBON	15K	5%	1/6W	
R548	1-247-813-00	CARBON	180	5%	1/6W	
R549	1-246-991-00	CARBON	150	5%	1/8W	F
R550	1-247-855-00	CARBON	10K	5%	1/6W	
R551	1-247-809-00	CARBON	120	5%	1/6W	
R552	1-247-855-00	CARBON	10K	5%	1/6W	
R553	1-205-642-00	CEMENTED	3.3K	10%	5W	
R554	1-247-837-00	CARBON	1.8K	5%	1/8W	F
R555	1-247-831-00	CARBON	1K	5%	1/6W	
R556	1-247-636-00	CARBON	0.47	5%	1/8W	F
R557	1-247-636-00	CARBON	0.47	5%	1/8W	F
R558	1-217-407-00	FUSIBLE	470		1/4W	F
R559	1-210-859-00	CARBON	1.2	5%	1/8W	F
R560	1-202-597-00	SOLID	10K	10%	1/2W	
R561	1-247-172-00	CARBON	51K	5%	1/4W	
R562	1-247-172-00	CARBON	51K	5%	1/4W	
R563	1-213-141-00	METAL OXIDE	680	5%	1W	F
R564	1-213-129-00	METAL OXIDE	68	5%	1W	F
R565	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R566	1-247-889-00	CARBON	270K	5%	1/6W	
R567	1-247-903-00	CARBON	1M	5%	1/6W	
R568	1-213-137-00	METAL OXIDE	330	5%	1W	F
R569	1-213-137-00	METAL OXIDE	330	5%	1W	F
R570	1-247-230-00	CARBON	390	5%	1/2W	
R571	1-247-863-00	CARBON	22K	5%	1/6W	
R572	1-247-865-00	CARBON	27K	5%	1/6W	
R573	1-247-843-00	CARBON	3.3K	5%	1/6W	
R574	1-247-871-00	CARBON	47K	5%	1/6W	
R575	1-247-879-00	CARBON	100K	5%	1/6W	
R577	1-247-855-00	CARBON	10K	5%	1/6W	
R578	1-215-459-00	METAL	39K	1%	1/6W	
R579	1-215-475-00	METAL	180K	1%	1/6W	
R580	1-246-483-00	CARBON	2.7K	5%	1/4W	
R581	1-246-483-00	CARBON	2.7K	5%	1/4W	
R582	1-247-833-00	CARBON	1.2K	5%	1/6W	
R583	1-247-831-00	CARBON	1K	5%	1/6W	
R584	1-247-875-00	CARBON	68K	5%	1/6W	
R585	1-247-873-00	CARBON	56K	5%	1/6W	
R586	1-215-493-00	METAL	1M	1%	1/6W	
R587	1-247-855-00	CARBON	10K	5%	1/6W	
R588	1-247-877-00	CARBON	82K	5%	1/6W	
R589	1-247-877-00	CARBON	82K	5%	1/6W	
R596	1-212-373-00	METAL OXIDE	12	5%	1W	F
R597	1-215-373-31	METAL	10	1%	1/6W	
R598	1-247-855-00	CARBON	10K	5%	1/6W	
R599	1-247-865-00	CARBON	27K	5%	1/6W	
R801	1-247-857-00	CARBON	12K	5%	1/6W	
R802	1-247-863-00	CARBON	22K	5%	1/6W	
R803	1-211-431-00	CARBON	150	5%	1/8W	F
R805	1-247-815-00	CARBON	220	5%	1/6W	
R806	1-247-875-00	CARBON	68K	5%	1/6W	
R807	1-247-861-00	CARBON	18K	5%	1/6W	
R809	1-247-867-00	CARBON	33K	5%	1/6W	
R810	1-247-845-00	CARBON	3.9K	5%	1/6W	
R811	1-247-867-00	CARBON	33K	5%	1/6W	
R812	1-247-863-00	CARBON	22K	5%	1/6W	
R813	1-247-845-00	CARBON	3.9K	5%	1/6W	
R814	1-247-869-00	CARBON	39K	5%	1/6W	
R815	1-247-865-00	CARBON	27K	5%	1/6W	
R816	1-247-831-00	CARBON	1K	5%	1/6W	
R817	1-247-831-00	CARBON	1K	5%	1/6W	
R818	1-247-891-00	CARBON	330K	5%	1/6W	
R825	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R827	1-247-859-00	CARBON	15K	5%	1/6W	
R840	1-247-855-00	CARBON	10K	5%	1/6W	
R841	1-244-883-00	CARBON	2.7K	5%	1/2W	
R845	1-247-885-00	CARBON	180K	5%	1/6W	

VARIABLE RESISTOR

RV501	1-228-577-00	RES, ADJ, CARBON 220
RV502	1-226-850-00	RES, ADJ, CARBON 4.7K

Ref.No	Part No.	Description	Remark
RV503	1-226-851-00	RES, ADJ, CARBON 10K	
RV504	1-228-160-11	RES, ADJ, METAL GLAZE 5K	
RV505	1-222-344-00	RES, ADJ, CARBON 5K	
RV506	1-223-102-00	RES, ADJ, WIREWOUND 120	
RV507	1-226-854-00	RES, ADJ, CARBON 100K	
RV509	1-224-249-XX	RES, ADJ, METAL GLAZE 1K	
RV801	1-226-851-00	RES, ADJ, CARBON 10K	
RV802	1-226-847-00	RES, ADJ, CARBON 1K	
RV803	1-226-847-00	RES, ADJ, CARBON 1K	
		SPARK GAP	
SG501	1-519-063-XX	DISCHARGING GAP	
		TRANSFORMER	
T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T503	1-421-520-00	TRANSFORMER, FERRITE (PHT)	
T801	1-421-245-11	TRANSFOMER, PZN CUSHION	
**********			
	1-413-179-11	SWITCHING REGULATOR (TK-09) **********	
♣	1-611-903-11	TK-09GB BOARD	
	2-430-308-01	INSULATOR (TK-03), TR	
♣	2-430-742-00	BRACKET-RIGHT (SR-12), L	
♣	2-430-743-00	BRACKET-LEFT (SR-12)	
	2-430-773-01	+PSW 3X6	
♣	2-430-947-00	PLATE, GROUND	
	2-434-060-01	+PSW 3X18	
	3-671-893-00	CLAMP (LOW TYPE)	
♣	4-310-385-00	HOLDER, WIRE	
♣	4-323-833-00	HEAT SINK, PIN OUT	
		CAPACITOR	
C601	⚠ 1-130-806-21	FILM 0.10MF 10% 400V	
C602	⚠ 1-161-742-12	CERAMIC 2200PF 20% 400V	F
C603	⚠ 1-161-742-12	CERAMIC 2200PF 20% 400V	F
C604	⚠ 1-161-742-12	CERAMIC 2200PF 20% 400V	F
C605	⚠ 1-125-268-11	ELECT	
C606	⚠ 1-124-023-51	ELECT 4.7MF 350V	
C607	⚠ 1-124-023-41	ELECT 4.7MF 350V	
C610	⚠ 1-161-963-11	CERAMIC 100PF 20% 2V	
C611	⚠ 1-161-912-11	CERAMIC 560PF 10% 500V	
C612	⚠ 1-161-912-11	CERAMIC 560PF 10% 500V	
C613	⚠ 1-161-912-11	CERAMIC 560PF 10% 500V	
C614	⚠ 1-161-912-11	CERAMIC 560PF 10% 500V	
C615	⚠ 1-161-989-11	CERAMIC 2200PF 10% 500V	
C616	⚠ 1-130-516-51	FILM 0.01MF 10% 50V	
C617	⚠ 1-130-520-51	FILM 0.022MF 10% 50V	
C618	⚠ 1-123-357-51	ELECT 22MF 20% 50V	
C619	⚠ 1-130-528-51	FILM 0.1MF 10% 50V	
C620	⚠ 1-123-575-51	ELECT 100MF 160V	
C621	⚠ 1-123-349-51	ELECT 1000MF 20% 35V	
C622	⚠ 1-123-324-51	ELECT 1000MF 20% 16V	

Ref.No	Part No.	Description	Remark
C623	⚠ 1-123-575-51	ELECT 100MF 160V	
C624	⚠ 1-123-333-51	ELECT 100MF 20% 25V	
C625	⚠ 1-123-333-51	ELECT 100MF 20% 25V	
C651	⚠ 1-130-528-51	FILM 0.1MF 10% 50V	
C652	⚠ 1-130-528-51	FILM 0.1MF 10% 50V	
C653	⚠ 1-124-265-11	ELECT 33MF 50V	
C654	⚠ 1-130-027-51	FILM 0.0056MF 5% 50V	
C655	⚠ 1-130-512-51	FILM 0.0047MF 10% 50V	
C656	⚠ 1-130-528-51	FILM 0.1MF 10% 50V	
C657	⚠ 1-123-330-51	ELECT 22MF 20% 25V	
		CONNECTOR	
CN651	♣ 1-564-164-11	PIN, CONNECTOR 7P	
		DIODE	
D601	⚠ 8-719-300-53	DIODE CTU-38S	
D602	⚠ 8-719-300-52	DIODE CTU-38R	
D603	⚠ 8-719-903-02	DIODE ESAC33-02C	
D604	⚠ 8-719-903-02	DIODE ESAC33-02C	
D605	⚠ 8-719-900-93	DIODE V09E	
D606	⚠ 8-719-911-19	DIODE 1SS119	
D607	⚠ 8-719-100-61	DIODE RD11E-B2	
D608	⚠ 8-719-100-34	DIODE RD5.6E-B1	
D609	⚠ 8-719-100-29	DIODE RD5.1E-B1	
D610	⚠ 8-719-100-29	DIODE RD5.1E-B1	
D611	⚠ 8-719-200-02	DIODE 10E2	
D612	⚠ 8-719-100-34	DIODE RD5.6E-B1	
D613	⚠ 8-719-100-34	DIODE RD5.6E-B1	
D651	⚠ 8-719-911-19	DIODE 1SS119	
D652	⚠ 8-719-911-19	DIODE 1SS119	
D653	⚠ 8-719-911-19	DIODE 1SS119	
D654	⚠ 8-719-100-34	DIODE RD5.6E-B1	
		IC	
IC651	⚠ 8-759-906-22	IC MB3759PF	
		COIL	
L601	⚠ 1-421-606-11	TRANSFORMER, LINE FILTER	
L602	⚠ 1-410-052-11	COIL, CHOKE (MAIN)	
L603	⚠ 1-410-053-11	COIL, CHOKE	
L604	⚠ 1-408-933-11	COIL, CHOKE	
L605	⚠ 1-408-933-11	COIL, CHOKE	
L606	⚠ 1-408-933-11	COIL, CHOKE	
		TRANSISTOR	
Q601	⚠ 8-729-300-95	TRANSISTOR STR8124	
Q602	⚠ 8-729-102-03	TRANSISTOR 2SD1020	
Q603	⚠ 8-729-102-03	TRANSISTOR 2SD1020	
Q604	⚠ 8-729-178-54	TRANSISTOR 2SC2785	
Q605	⚠ 8-729-177-43	TRANSISTOR 2SD774	
Q651	⚠ 8-729-117-54	TRANSISTOR 2SA1175	
Q652	⚠ 8-729-178-54	TRANSISTOR 2SC2785	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description				Remark
		RESISTOR				
R601	⚠1-244-921-11	CARBON	100K	5%	1/2W	
R602	⚠1-246-497-25	CARBON	10K	5%	1/4W	
R603	⚠1-212-946-51	FUSE	3.3	5%	1/2W	
R604	⚠1-246-449-25	CARBON	100	5%	1/4W	
R605	⚠1-244-921-11	CARBON	100K	5%	1/2W	
R606	⚠1-246-497-25	CARBON	10K	5%	1/4W	
R607	⚠1-212-946-51	FUSE	3.3	5%	1/2W	
R608	⚠1-246-449-25	CARBON	100	5%	1/4W	
R609	⚠1-244-873-11	CARBON	1K	5%	1/2W	
R610	⚠1-246-461-25	CARBON	330	5%	1/4W	
R611	⚠1-246-521-25	CARBON	100K	5%	1/4W	
R612	⚠1-246-497-25	CARBON	10K	5%	1/4W	
R613	⚠1-246-482-25	CARBON	2.4K	5%	1/4W	
R615	⚠1-213-151-61	METAL	4.7K	5%	1W	
R616	⚠1-246-453-25	CARBON	150	5%	1/4W	
R617	⚠1-246-417-25	CARBON	4.7	5%	1/4W	
R618	⚠1-217-465-21	FUSE	0.47	10%	1W	
R619	⚠1-217-465-21	FUSE	0.47	10%	1W	
R620	⚠1-246-418-25	CARBON	5.1	5%	1/4W	
R651	⚠1-247-855-41	CARBON	10K	5%	1/6W	
R652	⚠1-247-845-41	CARBON	3.9K	5%	1/6W	
R653	⚠1-247-862-41	CARBON	20K	5%	1/6W	
R654	⚠1-247-864-41	CARBON	24K	5%	1/6W	
R655	⚠1-247-836-41	CARBON	1.6K	5%	1/6W	
R656	⚠1-247-879-41	CARBON	100K	5%	1/6W	
R657	⚠1-247-835-41	CARBON	1.5K	5%	1/6W	
R658	⚠1-247-881-41	CARBON	120K	5%	1/6W	
R659	⚠1-247-854-41	CARBON	9.1K	5%	1/6W	
R660	⚠1-214-777-51	METAL	100K	1%	1/4W	
R661	⚠1-214-744-51	METAL	4.3K	1%	1/4W	
R662	⚠1-247-861-41	CARBON	18K	5%	1/6W	
R663	⚠1-247-852-41	CARBON	7.5K	5%	1/6W	
R664	⚠1-247-846-41	CARBON	4.3K	5%	1/6W	
R665	⚠1-247-849-41	CARBON	5.6K	5%	1/6W	
R666	⚠1-247-831-41	CARBON	1.0K	5%	1/6W	
R667	⚠1-247-837-41	CARBON	1.8K	5%	1/6W	
		TRANSFORMER				
T601	⚠1-447-764-11	TRANSFORMER, CONVERTER				
T602	⚠1-437-102-12	TRANSFORMER, DRIVE				
T603	⚠1-421-460-11	TRANSFORMER, CURRENT				

****

MISCELLANEOUS
****

	⚠1-228-482-00	RESISTOR ASSY, HIGH-VOLTAGE
	⚠1-451-204-61	DEFLECTION YOKE (SY-108B)
	1-452-032-00	MAGNET DISK; 10MM ϕ
	1-452-094-00	MAGNET ROTATABLE DISK; 15MM ϕ
	⚠1-534-820-XX	POWER CORD
L901	⚠1-426-087-41	COIL, DEGAUSSING
S901	⚠1-552-503-00	SWITCH, PUSH
SP901	1-503-109-00	SPEAKER
T502	⚠1-439-322-00	TRANSFORMER ASSY, FLYBACK
V901	⚠8-737-251-05	CRT A49JHT00X

****

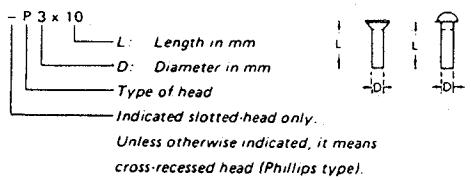
ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
4-493-915-11	MANUAL, INSTRUCTION	
4-309-537-00	BAG, PROTECTION	
4-363-322-01	INDIVIDUAL CARTON	
4-370-943-01	CUSHION (UPPER) (ASSY)	
4-370-944-01	CUSHION (LOWER) (ASSY)	

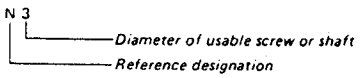
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

HARDWARE NOMENCLATURE

Screw:


– P 3 x 10
L: Length in mm
D: Diameter in mm
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means
cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex SC 2 6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex LW3, internal
LW		external-tooth lock washer	ex LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

9-963-247-01

Sony Corporation
TV Group

English
87FB0906-6
Printed in Japan
© 1985

PVM-2010QM

SONY®

SERVICE MANUAL

AEP Model
UK Model

Chassis No. SCC-557A-A

No. 1

SUPPLEMENT

SUBJECT: The following part numbers in the printed wiring boards have been changed.

File this supplement with the service manual.

Board	Part No.
F	1-612-243-16
H	1-612-248-12
B	1-612-247-16
D	1-612-242-15
Q	1-612-244-13
C1	1-612-245-14
C2	1-612-246-12

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5-4.	Schematic Diagrams	7
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(3)	Bezel Ass'y	30
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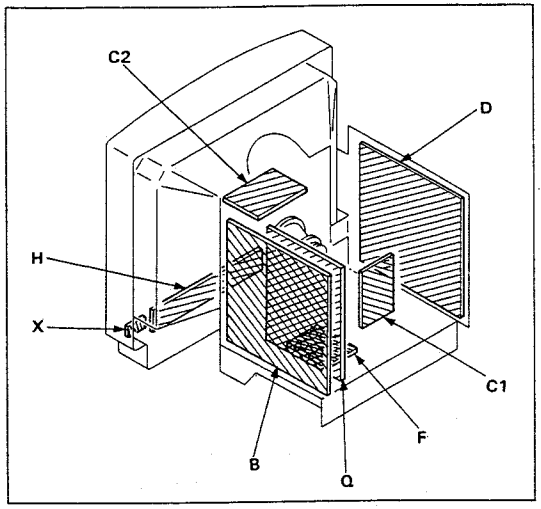
MICROFILM

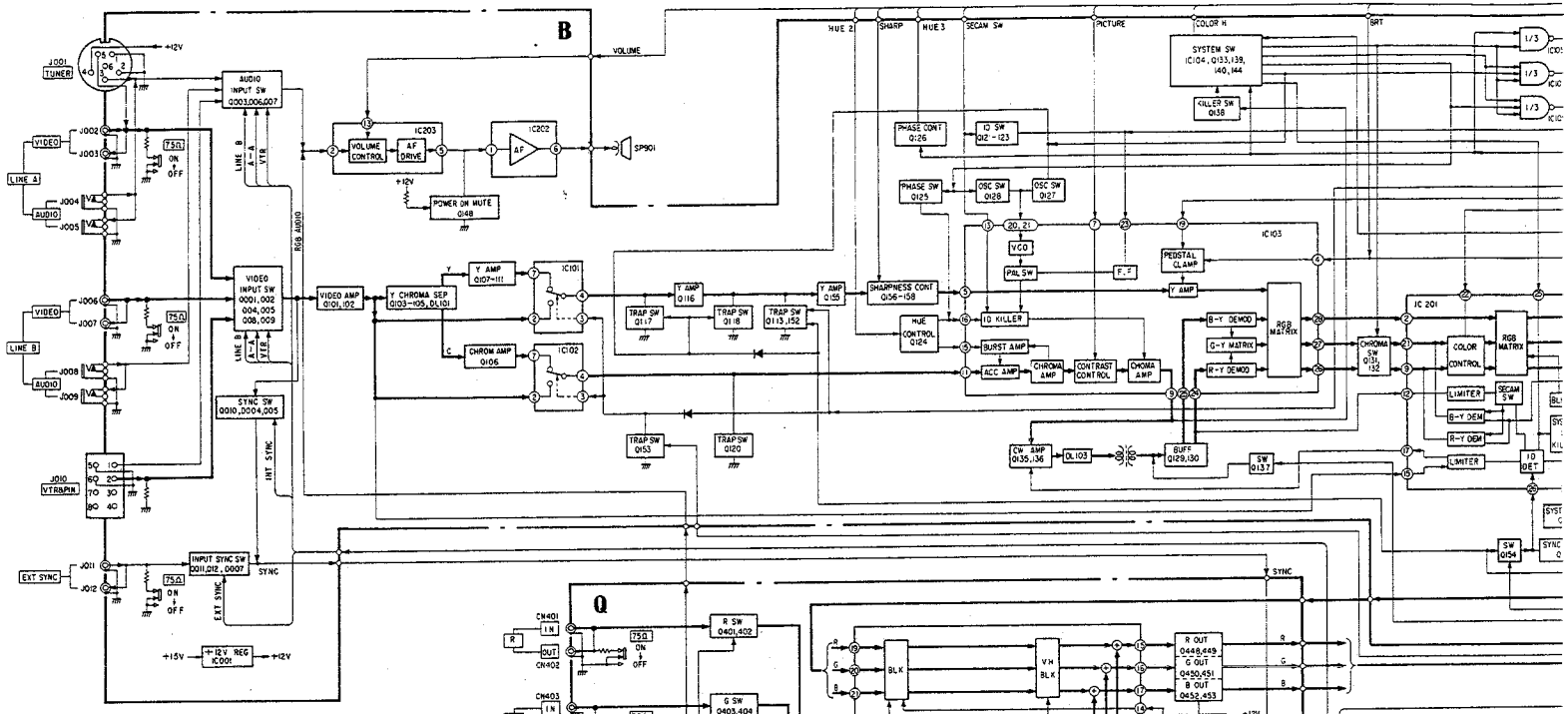
MON

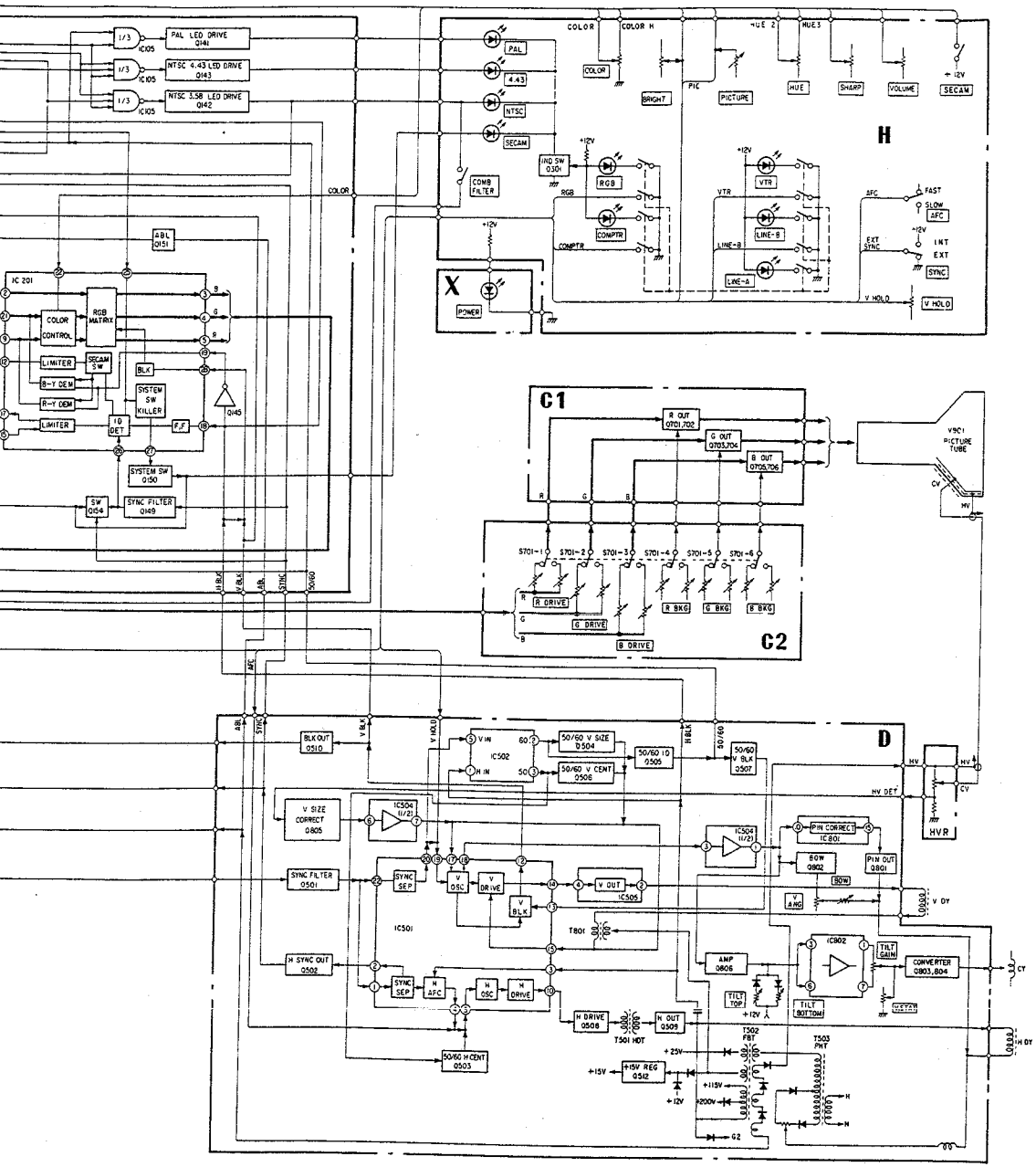
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. BLOCK DIAGRAM

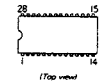




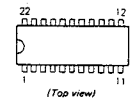
5-3. SEMICONDUCTORS

μPC1241H

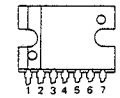
μPC1364C2
μPC1365C
CX22019



μPC1377C

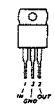


μPC1378H-L
μPC1378H-P



μPC4558C
CX7916

μPC7805H
μPC7812H
μPC78M12H



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SN74LS04N
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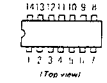
SN74LS09N
SN74LS136N
SN74LS20N
TC4023BP
TC4024BP



CX20061

SN74LS138N
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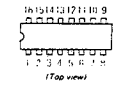

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2SA1115
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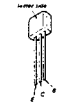
2SC2603
DTA124ES

2SA1175
2SC2785



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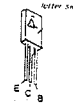
2SC1815
2SC945

2SC2611
2SC2688



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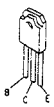
2SD1398



2SD774

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2SK107-3

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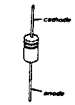
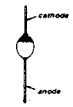
1SS133
1SS148

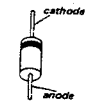
1T-22A
D033
EQB01-22
RH1A
RH1Z
S1B01-02



ERC26-15S



ERD28-08S
RD3.0E-B1
RD3.9E-N1
RD4.3E-B1
RD4.7E-B2
RD6.2E-B1
RD6.2E-B2
RD7.5EN3
RD8.2E-N1
RD8.2E-N2



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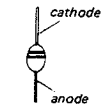
U05G



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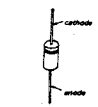
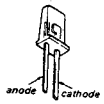
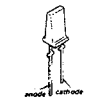


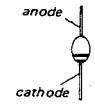
SG232D



SY432D



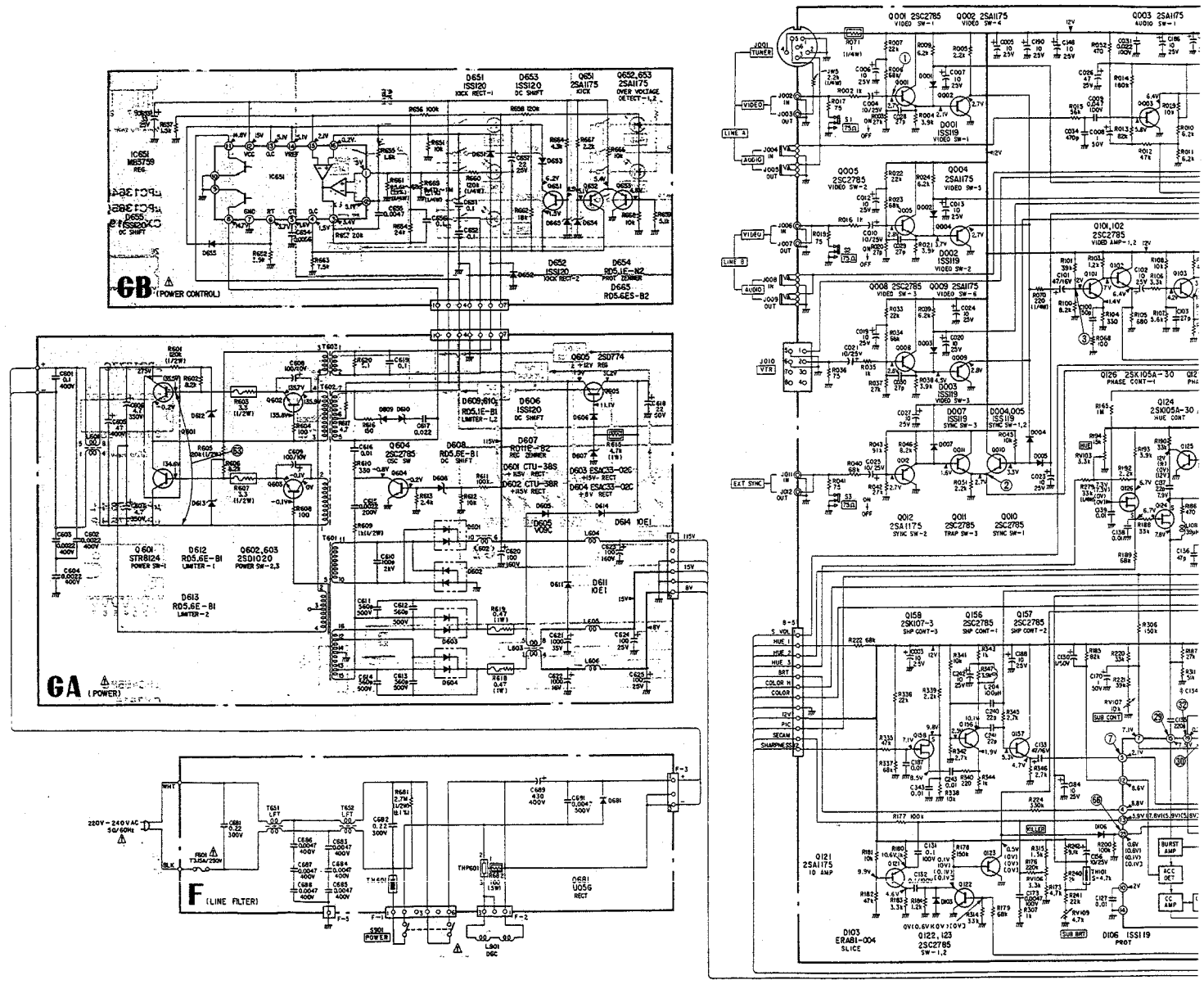
V19C
V19E
V30N

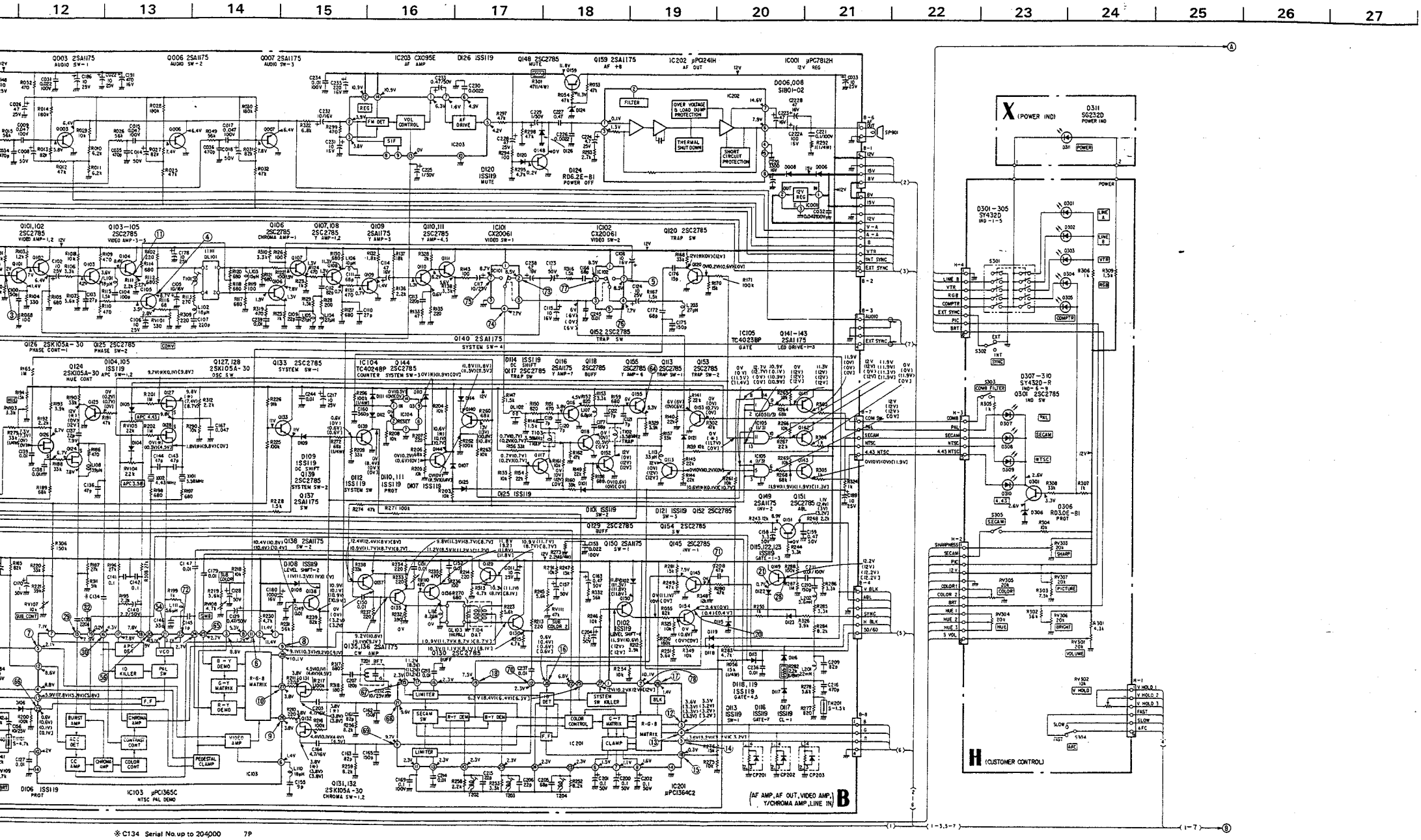


5-4. SCHEMATIC DIAGRAMS

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ
- Notice that the following boards have not a resistance wattage of 1/6W.
  GA Board ..... 1/4W (as a reference)
- ⚠: nonflamable resistor.
- : fusible resistor
- △ : internal component.
- ▭: panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input to LINE A.
- Voltages are dc with respect to ground unless otherwise noted.
- The voltage of Q601 ~ Q603 is a reference value between emitter of Q601.
- Readings are taken with a 10MΩ digital multimeter.
- ▭: adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B + bus.
- ①: The number indicates No. of a waveform diagram. For the waveform diagram, refer to page 23 ~ 27.
- no mark : PAL
  ( ) : SECAM
  < > : NTSC 3.58
  [ ] : NTSC 4.43
  *: Not measurable.
- ※ : Selected to yield optimum performance.




12
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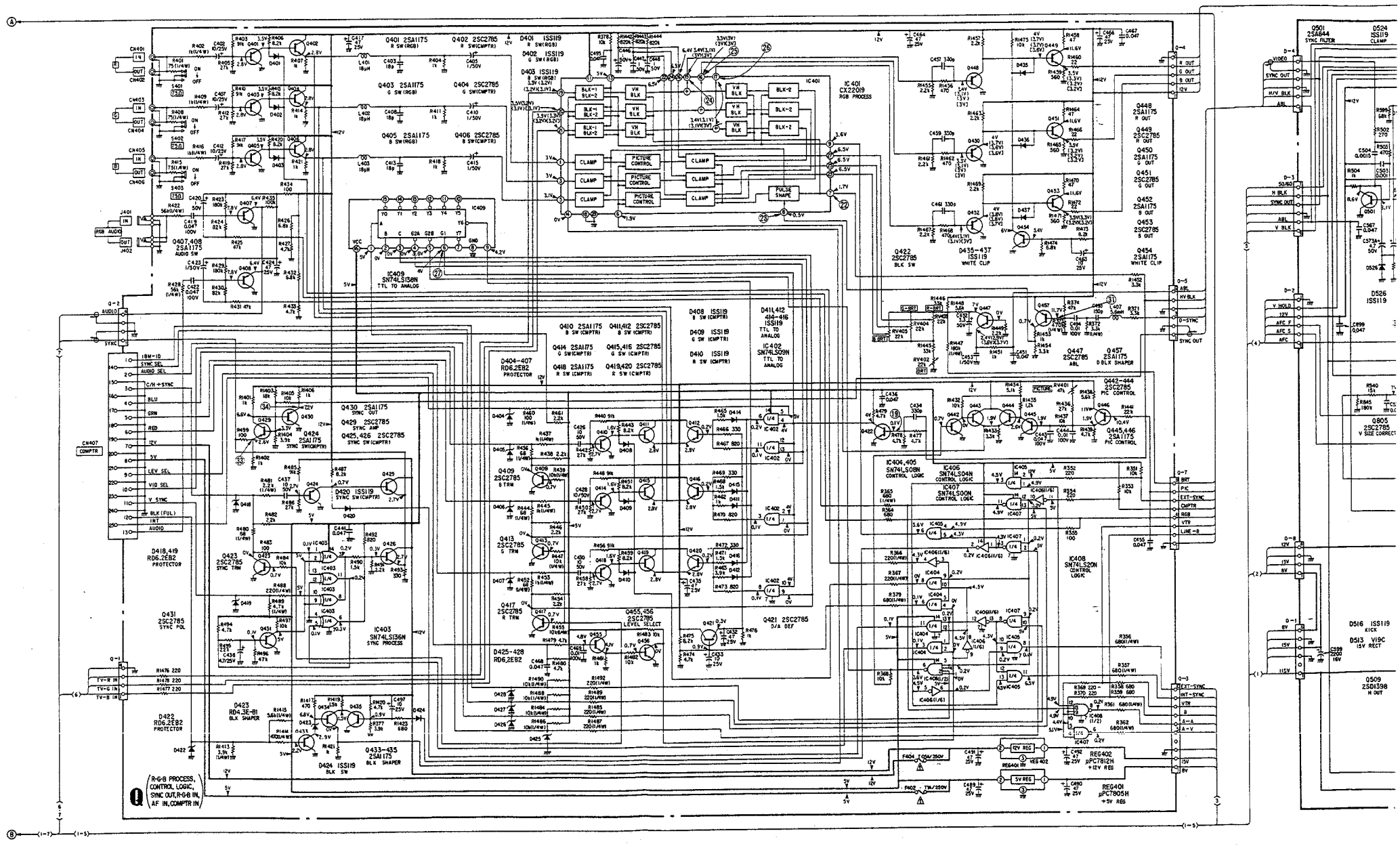
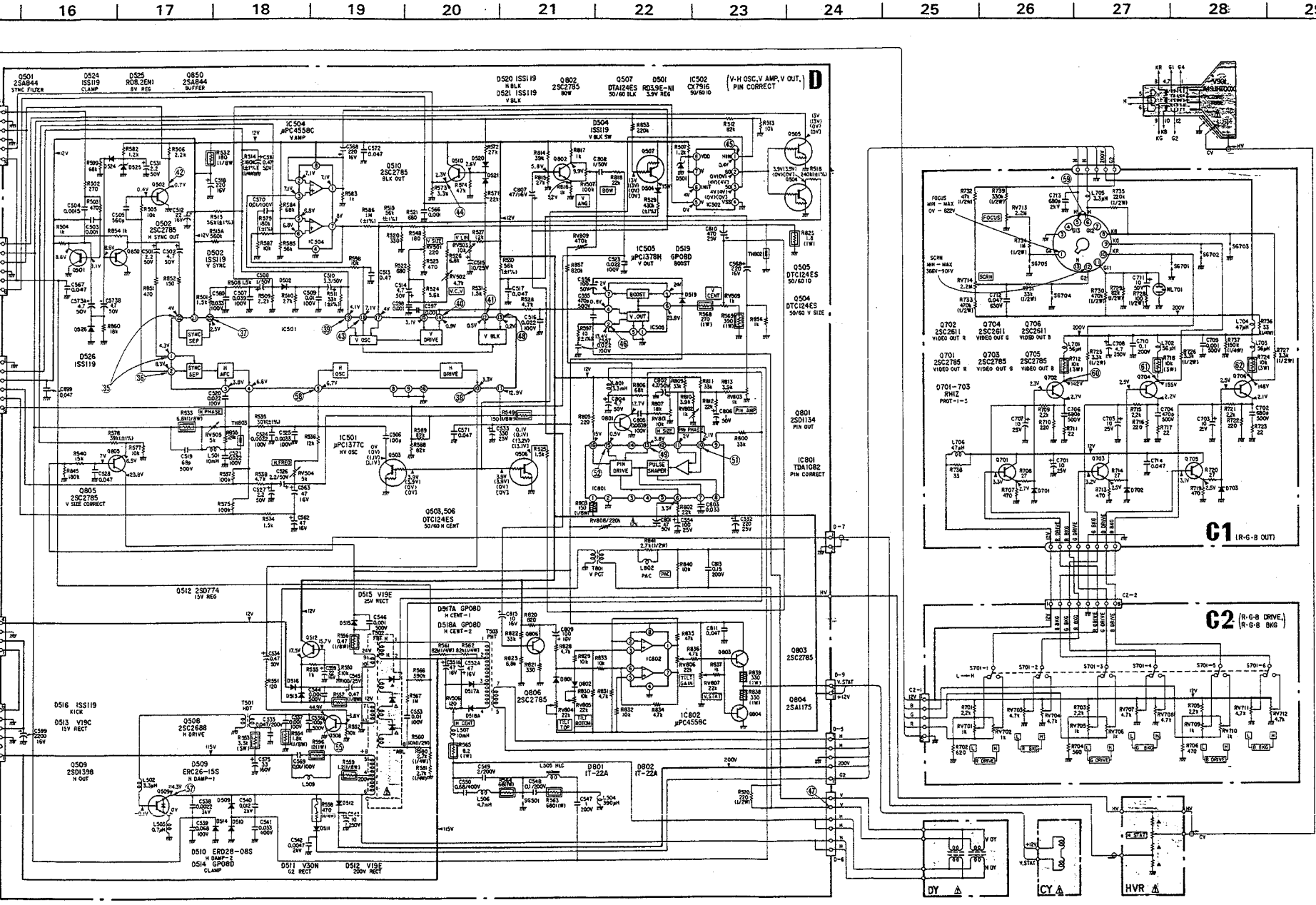
27
Q003 2SA1175
AUDIO SW-1
Q006 2SA1175
AUDIO SW-2
Q007 2SA1175
AUDIO SW-3
IC203 CX095E
AF AMP
DI26 ISS119
Q148 2SC2785
MUTE
Q159 2SA1175
AF +8
IC202 μPQ241H
AF OUT
IC001 μPC7812H
12V REG
D006,008
SI801-02
FILTER
OVER VOLTAGE & LOAD DUMP PROTECTION
THERMAL SHUT DOWN
SHORT CIRCUIT PROTECTION
REG
FM DET
VOL CONTROL
AF DRIVE
SIF
D120 ISS119
MUTE
D124 RD6.2E-B1
POWER OFF
SP901
Q101,102 2SC2785
VIDEO AMP-1,2
Q103-105 2SC2785
VIDEO AMP-3~5
Q106 2SC2785
CHROMA AMP-1
Q107,108 2SC2785
Y AMP-1,2
Q109 2SA1175
Y AMP-3
Q110,111 2SC2785
Y AMP-4,5
IC101 CX20061
VIDEO SW-1
IC102 CX20061
VIDEO SW-2
Q120 2SC2785
TRAP SW
Q140 2SA1175
SYSTEM SW-4
Q152 2SC2785
TRAP SW
IC105 TC4023BP
GATE
Q141-143 2SA1175
LED DRIVE-1~3
Q126 2SK105A-30
PHASE CONT-1
Q125 2SC2785
PHASE SW-2
Q124 2SK105A-30
HUE CONT
Q104,105 ISS119
APC SW-1,2
Q127,128 2SK105A-30
OSC SW
Q133 2SC2785
SYSTEM SW-1
IC104 TC4024BP
COUNTER
Q144 2SC2785
SYSTEM SW-3
DI14 ISS119
DC SHIFT
Q117 2SC2785
TRAP SW
Q116 2SA1175
Y AMP-7
Q118 2SC2785
BUFF
Q155 2SC2785
Y AMP-6
Q113 2SC2785
TRAP SW-1
Q153 2SC2785
TRAP SW-2
D109 ISS119
DC SHIFT
Q139 2SC2785
SYSTEM SW-2
Q157 2SA1175
SW
D112 ISS119
SYSTEM SW
D110,111 ISS119
PROT
D107 ISS119
D125 ISS119
D101 ISS119
SW-2
D121 ISS119
Q152 2SC2785
SW-3
Q129 2SC2785
BUFF
Q154 2SC2785
SW
Q149 2SA1175
INV-2
Q151 2SC2785
ABL
D115,122,123 ISS119
GATE-1~3
Q138 2SA1175
SW-2
Q136,137 2SA1175
CW AMP
Q130 2SC2785
BUFF
Q145 2SC2785
INV-1
D108 ISS119
LEVEL SHIFT-1
D102 ISS119
LEVEL SHIFT-4
D118,119 ISS119
GATE-4,5
D113 ISS119
SW-1
D116 ISS119
GATE-7
D117 ISS119
CL-1
D106 ISS119
PROT
IC103 μPC1365C
NTSC PAL DEMO
Q131,132 2SK105A-30
CHROMA SW-1,2
IC201 μPC1364C2
(AF AMP, AF OUT, VIDEO AMP,) Y/CHROMA AMP, LINE IN
B
X (POWER IND)
0311 SG232D
POWER IND
0301-305 SY432D
IND-1~5
0307-310 SY432D-R
IND-6~9
0301 2SC2785
IND SW
S301
S302
S303
S304
S305
S306
D307
D306 RD3.0E-B1
PROT
RV303 SHARP
RV305 COLOR
RV307 PICTURE
RV304 HUE
RV306 BRIGHT
RV301 VOLUME
RV302 V HOLD
H (CUSTOMER CONTROL)
※C134 Serial No. up to 204000 7P
Serial No. 204001 and later 47P


IC401 CX22019 RGB PROCESS
IC409 SN74LS136N TTL TO ANALOG
IC402 SN74LS09N TTL TO ANALOG
IC403 SN74LS136N SYNC PROCESS
IC404,405 SN74LS08N CONTROL LOGIC
IC406 SN74LS04N CONTROL LOGIC
IC407 SN74LS00N CONTROL LOGIC
IC408 SN74LS20N CONTROL LOGIC
REG401 μPC7905H +5V REG
REG402 μPC7812H +12V REG
R-G-B PROCESS, CONTROL LOGIC, SYNC OUT, R-G-B IN, AF IN, COMPTR IN


16
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31
D
C1 (R-G-B OUT)
C2 (R-G-B DRIVE, R-G-B BKG)
DY
CY
HVR

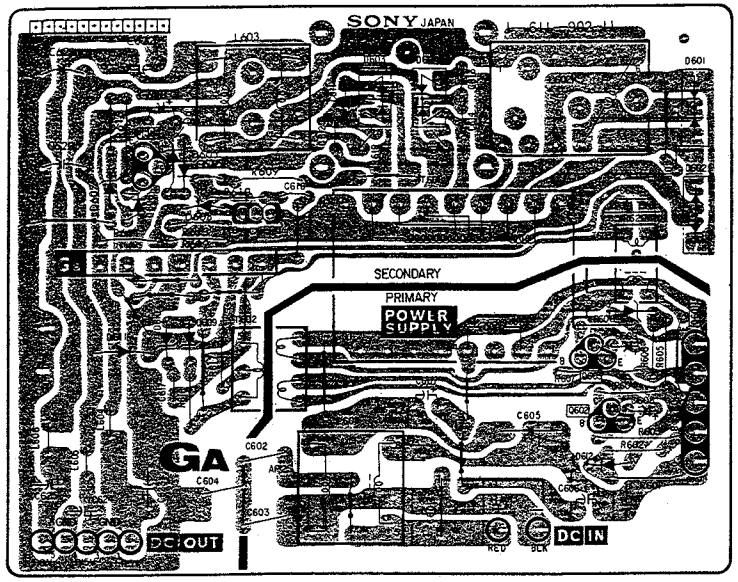
5-5. PRINTED WIRING BOARDS
– Conductor Side –

GA [POWER] GB [POWER CONTROL] F [LINE FILTER] X [POWER IND] H [CUSTOMER CONTROL]

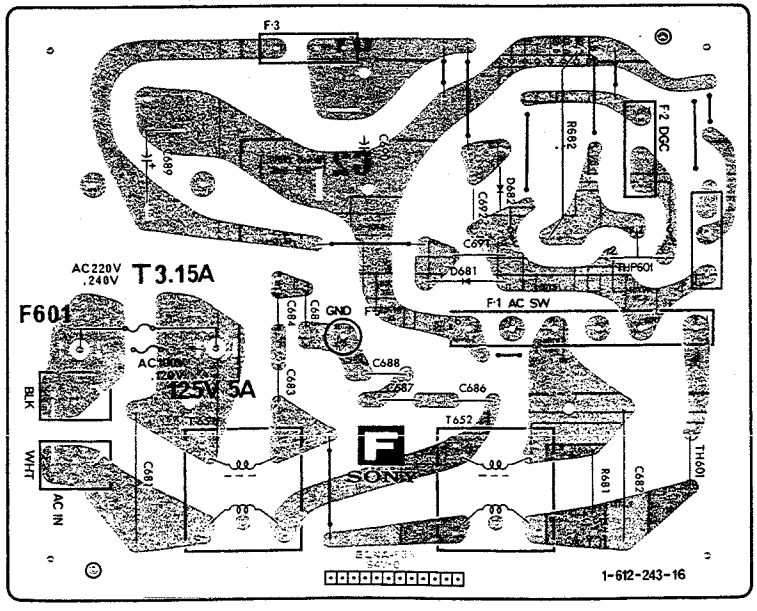
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J

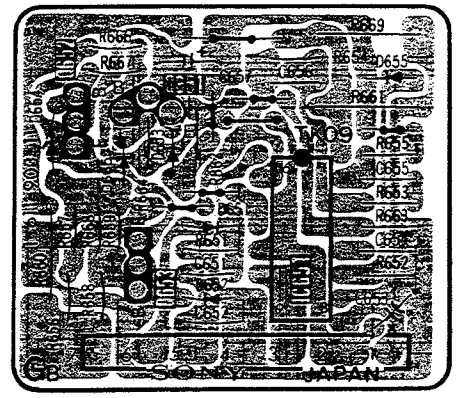
– GA Board –



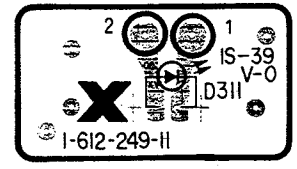
– F Board –



– GB Board –

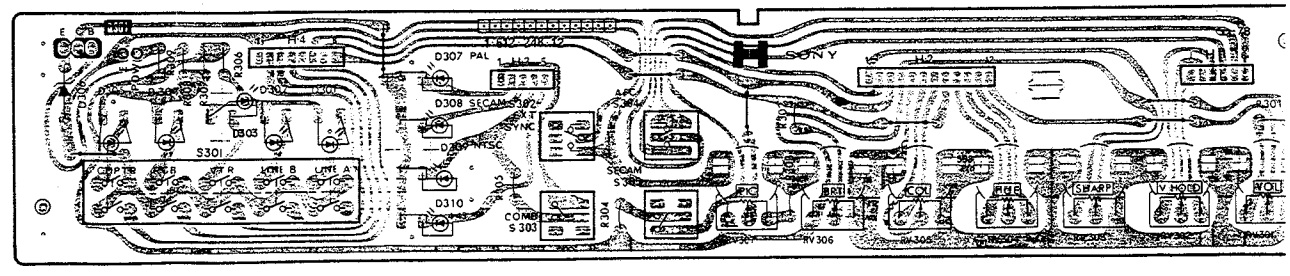


– X Board –



– B Boar

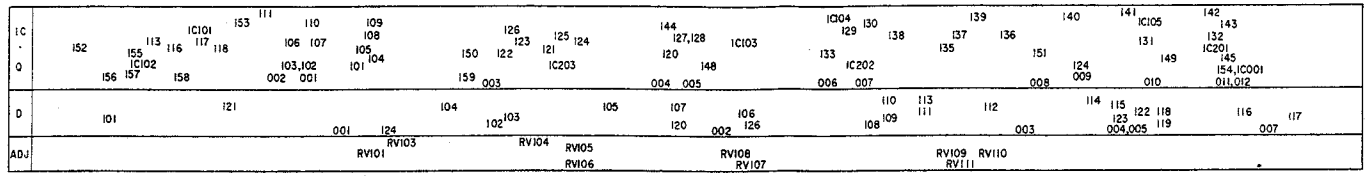
– H Board –

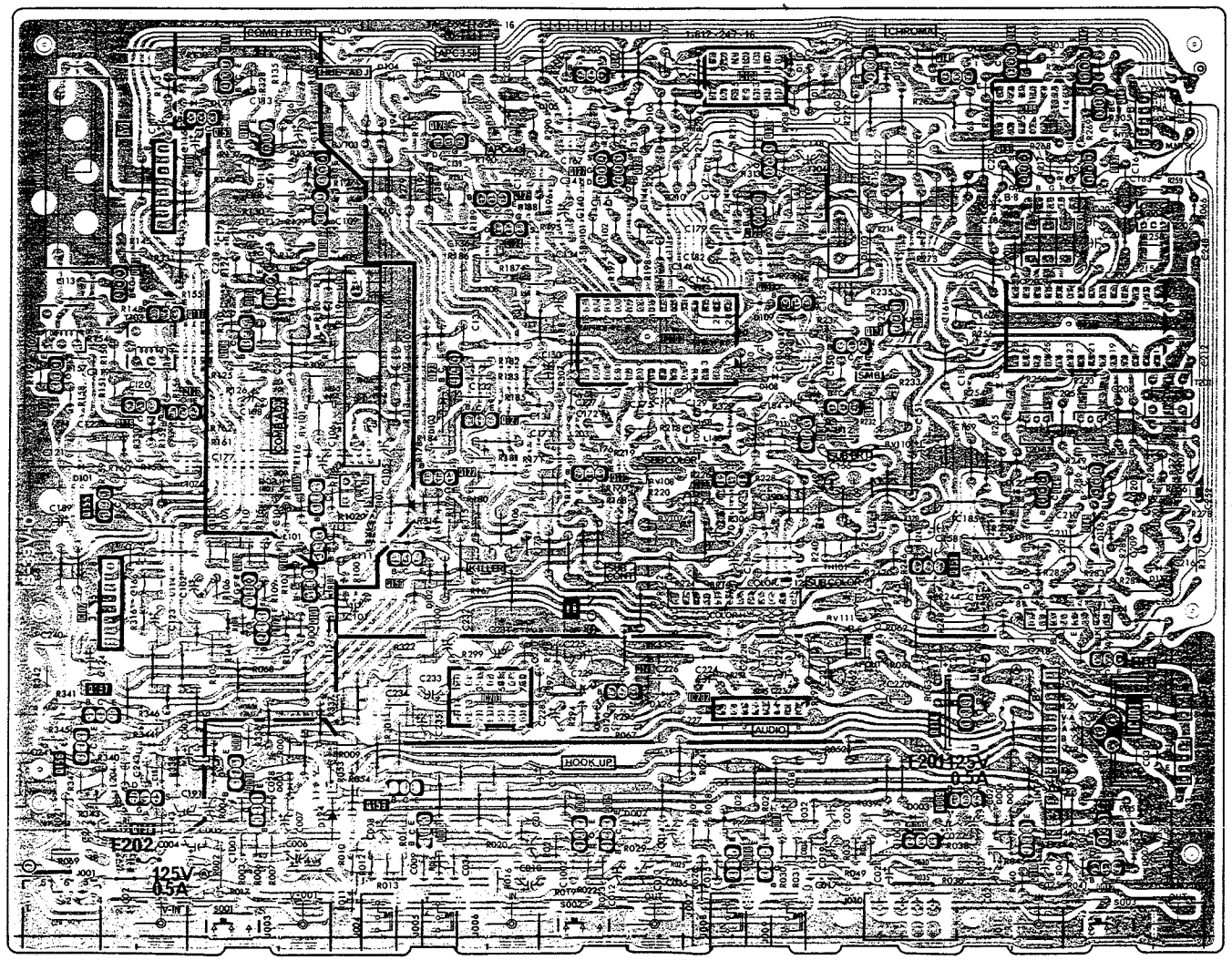


TOMER CONTROL] **B** [AF AMP, AF OUT, VIDEO AMP, Y/CHROMA AMP, LINE IN]

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

— B Board —

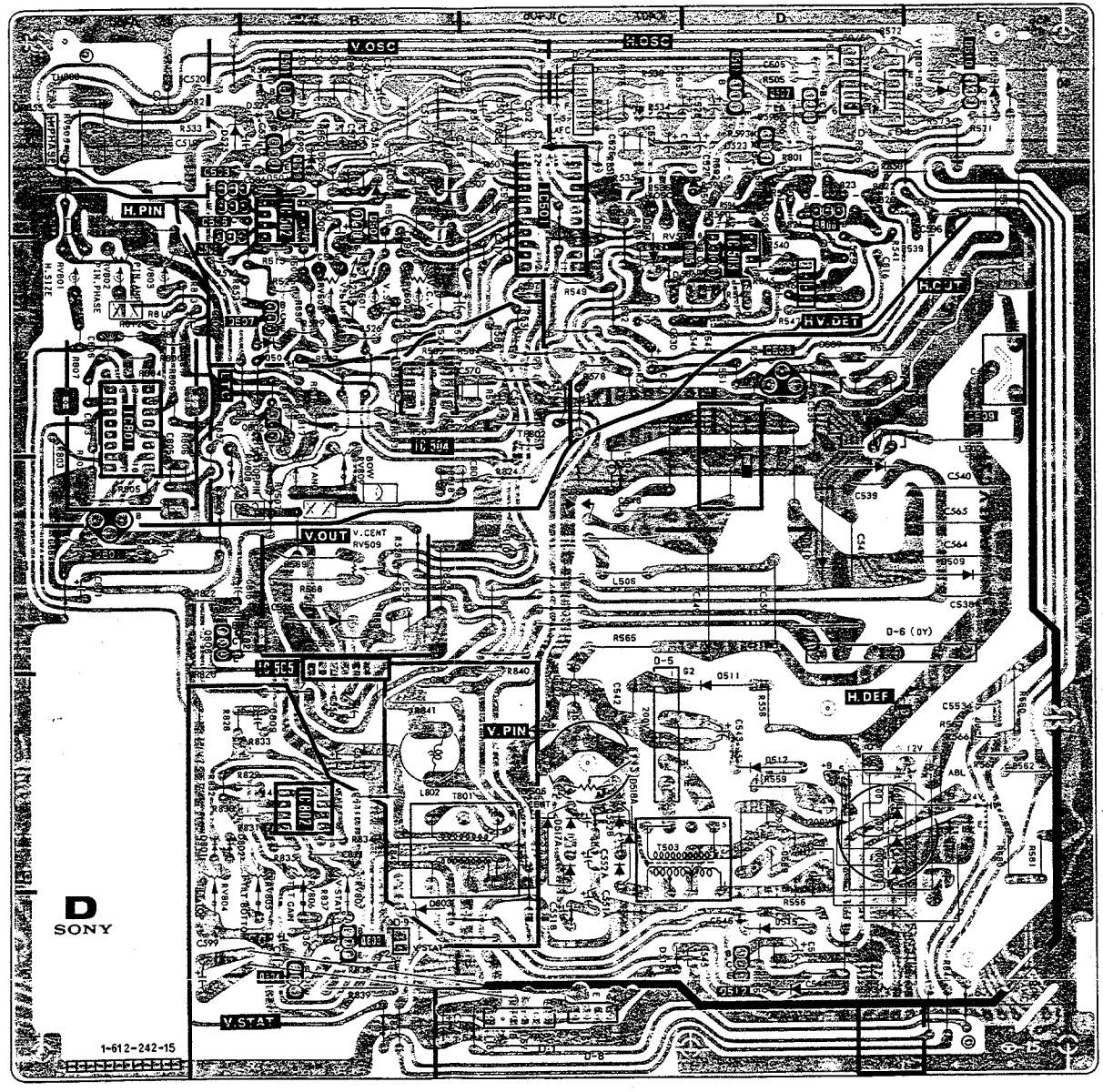




D [V · H OSC, V AMP, V OUT, PIN CORRECT]

— D Board —

Q , IC	D	ADJ
501 502 510	520 521 524 525	RV505
850	526	
503 506 IC501 IC502 504 505	501,502	RV504
805		RV801 RV802 RV803 RV503 RV501 RV502
507	504	
IC504 508 509		
IC801 802		RV808 RV507 RV809
	514	
801		
	510 509	RV509
	519	
806 IC505		
	511	
	512	RV506
IC802	517A 518A 801,802	
		RV804 RV805 RV806 RV807
	515	
803 512 804	516	
	513	

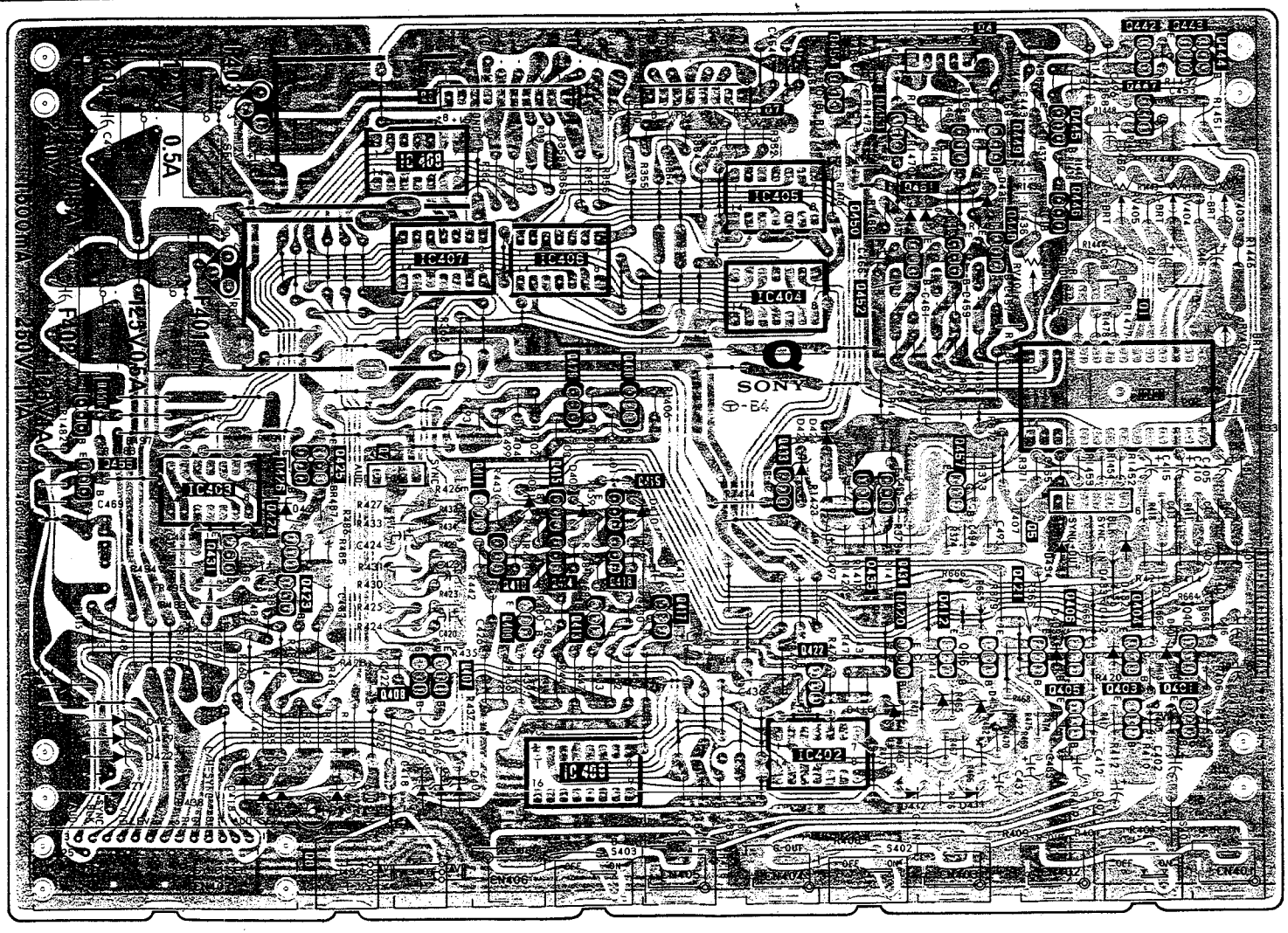


Q [R · G · B PROCESS, CONTROL LOGIC, SYNC OUT, R · G · B IN, AF IN, COMPTR IN]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

— Q Board —

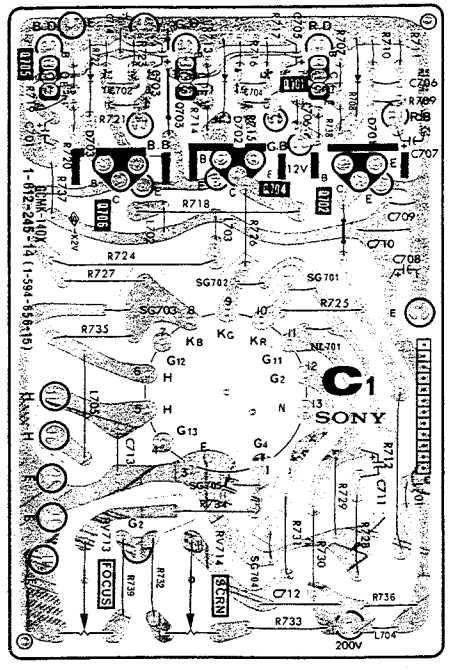
Q, IC	REG402 REG401 456 455 IC403 431 424 426,425 423 IC408 IC407 408,407 411 410 409 IC406 429 415 414 IC409 413 430 419 418 417 454 IC405 IC404 433 453 452 451 450 449 448 435,434 457 422 IC402 420 412 416 421 445 446 406 405 IC401 442 447 443,444 404 403 402 401	Q, IC
D	404 425 419 422 420 418,426,428 427 405,406,407 408 409 410 423 424 437,436 416 412 414 415 411 435 403 402 401	D
ADJ	RV401 RV405 RV404 RV403 RV402	ADJ



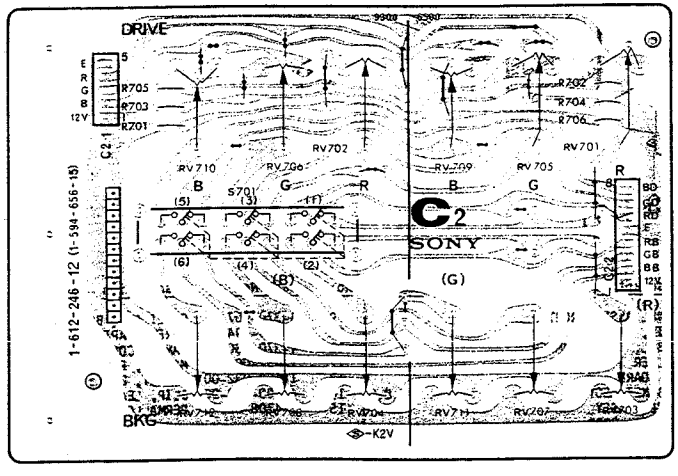
C1 [R · G · B OUT] **C2** [R · G · B DRIVE, R · G · B BKG]

5-6. WAVEFORMS

— C1 Board —



— C2 Board —



B BOARD

① PAL 0.7Vp-p(H)	④ SECAM 2.7Vp-p(H)	⑦ SECAM 1V p-p(H)	⑩ NTSC3.58,4.43 0.7Vp-p(H) (3.58) 0.8Vp-p(H) (4.43)	⑭ PAL 6V p-p(H)	⑱ PAL,SECAM NTSC 3.58, 4.43 6.5Vp-p(H) (PAL) 10 V p-p(H) (SECAM) 9.5V p-p(H) (3.58) 9.5V p-p(H)(4.43)	㉚ SECAM 0.5Vp-p(H)
① SECAM 0.9Vp-p(H)	④ NTSC3.58,4.43 1.8Vp-p(H)	⑦ NTSC3.58,4.43 1.1Vp-p(H)	⑪ PAL 1.4Vp-p(H)	⑭ SECAM 6V p-p(H)		㉚ NTSC3.58,4.4 0.32Vp-p(H)
① NTSC 3.58 , 4.43 0.85V p-p(H)	⑤ PAL 2.2V p-p(H)	⑧ PAL 4.4V p-p(H)	⑪ SECAM 1.6V p-p(H)	⑭ NTSC 3.58,4.43 5.6V p-p(H)(3.58) 3.5V p-p(H)(4.43)	⑳ PAL,SECAM NTSC 3.58,4.43 5.6Vp-p(H)(PAL) 0.05Vp-p(H)(SECA) 6Vp-p(H)(3.58) 6Vp-p(H)(4.43)	㉜ 2.6Vp-p(H)
② PAL 0.75Vp-p(H)	⑤ SECAM 2.8Vp-p(H)	⑧ SECAM 0.02Vp-p(H)	⑪ NTSC3.58,4.43 1.5Vp-p(H)	⑮ 3.6Vp-p(H)		㊺④ PAL,SECAM NTSC 3.58 , 4.4 0.44Vp-p(4.43MHz) 0.55Vp-p(4.43MHz) 0.46Vp-p(3.58MHz) 0.44Vp-p(4.43MHz)
② SECAM 0.86Vp-p(H)	⑤ NTSC 3.58 2.8Vp-p(H)	⑧ NTSC3.58,4.43 0.45Vp-p(H) (3.58) 0.36Vp-p(H) (4.43)	⑫ PAL 6Vp-p(H)	⑯ PAL, NTSC 3.58,4.43 3 V p-p(H)(PAL) 8.5 V p-p(H)(3.58) 4.6 V p-p(H)(4.43)	㉘ PAL, SECAM NTSC 3.58,4.43 3.4Vp-p(H)(PAL) 3 Vp-p(H)(SECAM) 3.6Vp-p(H)(3.58) 3.4Vp-p(H)(4.43)	
② NTSC3.58,4.43 0.4Vp-p(H)	⑤ NTSC 4.43 3.2Vp-p(H)	⑨ PAL 0.9Vp-p(H)	⑫ SECAM 7.5Vp-p(H)			㊺⑥ PAL ,SECAM NTSC3.58,4.4 1.1Vp-p(4.43MHz) 1.8Vp-p(4.43MHz) 2.2Vp-p(3.58MHz) 2.4Vp-p(4.43MHz)
③ PAL 0.7Vp-p(H)	⑥ PAL 0.32Vp-p(H)	⑨ SECAM 0.45Vp-p(H)	⑫ NTSC3.58,4.43 5.6Vp-p(H) (3.58) 3.6Vp-p(H) (4.43)	⑯ SECAM 8Vp-p(H)	㉙ PAL 1.8Vp-p(H)	
③ SECAM 0.9Vp-p(H)	⑥ SECAM 0.48Vp-p(H)	⑨ NTSC 3.58,4.43 0.5Vp-p(H) (3.58) 0.65Vp-p(H) (4.43)	⑬ PAL 5.6Vp-p(H)	⑰ PAL ,SECAM NTSC3.58,4.43 2.8Vp-p(H) (PAL) 8V p-p(H) (SECAM) 7.5Vp-p(H) (3.58) 4V p-p(H) (4.43)	㉙ SECAM 2.2V p-p(H)	㊹ PAL 0.9V p-p(H)
③ NTSC3.58 ,4.43 0.85Vp-p(H)	⑥ NTSC3.58, 4.43 0.95Vp-p(H) (3.58) 0.4Vp-p(H) (4.43)	⑩ PAL 1.1V p-p(H)	⑬ SECAM 6Vp-p(H)		㉙ NTSC 3.58,4.43 1.6Vp-p(H)(3.58) 1.8Vp-p(H)(4.43)	㊹ SECAM 1V p-p(H)
④ PAL 1.3V p-p(H)	⑦ PAL 0.9V p-p(H)	⑩ SECAM 0.9Vp-p(H)	⑬ NTSC3.58,4.43 5.6Vp-p(H) (3.58) 3.4Vp-p(H) (4.43)	㉑ 12V p-p(H)	㉚ PAL 0.4Vp-p(H)	㊹ NTSC3.58,4. 1.1Vp-p(H)

VEFORMS

RD

PAL
0.7Vp-p(H)

④ SECAM
2.7Vp-p(H)

⑦ SECAM
IVp-p(H)

⑩ NTSC3.58,4.43
0.7Vp-p(H) (3.58)
0.8Vp-p(H) (4.43)

⑭ PAL
6Vp-p(H)

⑱ PAL,SECAM
NTSC 3.58, 4.43
6.5Vp-p(H) (PAL)
10Vp-p(H) (SECAM)
9.5Vp-p(H) (3.58)
9.5Vp-p(H)(4.43)

㉚ SECAM
0.5Vp-p(H)

㊺ PAL
0.26Vp-p(H)

㊽ NTSC 3.58,4.43
0.9Vp-p(H) (3.58)
0.8Vp-p(H) (4.43)

㉓ PAL
3Vp-p(H)

㉕ NTSC4.43
3.2Vp-p(H)

㉘ SECAM
2.6Vp-p(H)

SECAM
0.9Vp-p(H)

④ NTSC3.58,4.43
1.8Vp-p(H)

⑦ NTSC3.58,4.43
1.1Vp-p(H)

⑪ PAL
1.4Vp-p(H)

⑭ SECAM
6Vp-p(H)

㉚ NTSC3.58,4.43
0.32Vp-p(H)

㊺ SECAM
0.18Vp-p(H)

㊾ PAL
0.85Vp-p(H)

㉓ SECAM
3.6Vp-p(H)

㉖ PAL
2.6Vp-p(H)

㉘ NTSC3.58,4.43
2.6Vp-p(H)(3.58)
2.8Vp-p(H)(4.43)

NTSC 3.58 , 4.43
0.85Vp-p(H)

⑤ PAL
2.2Vp-p(H)

⑧ PAL
4.4Vp-p(H)

⑪ SECAM
1.6Vp-p(H)

⑭ NTSC3.58,4.43
5.6Vp-p(H)(3.58)
3.5Vp-p(H)(4.43)

⑳ PAL,SECAM
NTSC3.58,4.43
5.6Vp-p(H)(PAL)
0.05Vp-p(H)(SECAM)
6Vp-p(H)(3.58)
6Vp-p(H)(4.43)

㉜
2.6Vp-p(H)

㊺ NTSC 3.58,4.43
0.24Vp-p(H) (3.58)
0.28Vp-p(H) (4.43)

㊾ SECAM
0.9Vp-p(H)

㉓ NTSC 3.58, 4.43
3.2Vp-p(H)

㉖ SECAM
3Vp-p(H)

PAL
0.75Vp-p(H)

⑤ SECAM
2.8Vp-p(H)

⑧ SECAM
0.02Vp-p(H)

⑪ NTSC3.58,4.43
1.5Vp-p(H)

⑮
3.6Vp-p(H)

㊹ PAL,SECAM
NTSC3.58,4.43
0.44Vp-p(4.43MHz)(PAL)
0.55Vp-p(4.43MHz)(SECAM)
0.46Vp-p(3.58MHz)(3.58)
0.44Vp-p(4.43MHz)(4.43)

㊻ PAL,SECAM
4.5Vp-p(H)

㊾ NTSC 3.58,4.43
0.75Vp-p(H) (3.58)
0.45Vp-p(H) (4.43)

㉔ PAL
3Vp-p(H)

㉖ NTSC3.58
2.8Vp-p(H)

SECAM
0.86Vp-p(H)

⑤ NTSC 3.58
2.8Vp-p(H)

⑧ NTSC3.58,4.43
0.45Vp-p(H) (3.58)
0.36Vp-p(H) (4.43)

⑫ PAL
6Vp-p(H)

⑯ PAL,
NTSC3.58,4.43
3Vp-p(H)(PAL)
8.5Vp-p(H)(3.58)
4.6Vp-p(H)(4.43)

㉘ PAL,SECAM
NTSC3.58,4.43
3.4Vp-p(H)(PAL)
3Vp-p(H)(SECAM)
3.6Vp-p(H)(3.58)
3.4Vp-p(H)(4.43)

㊻ NTSC3.58,4.43
0.36Vp-p(H)

㊿ PAL
0.44Vp-p(H)

㉔ SECAM
3.6Vp-p(H)

㉖ NTSC4.43
3.2Vp-p(H)

NTSC3.58,4.43
0.4Vp-p(H)

⑤ NTSC 4.43
3.2Vp-p(H)

⑨ PAL
0.9Vp-p(H)

⑫ SECAM
7.5Vp-p(H)

㊻ PAL,SECAM
NTSC3.58,4.43
1.1Vp-p(4.43MHz)(PAL)
1.8Vp-p(4.43MHz)(SECAM)
2.2Vp-p(3.58MHz)(3.58)
2.4Vp-p(4.43MHz)(4.43)

㊼ PAL
0.5Vp-p(H)

㊿ SECAM
0.2Vp-p(H)

㉔ NTSC 3.58
2.8Vp-p(H)

㉗ PAL
2.6Vp-p(H)

PAL
0.7Vp-p(H)

⑥ PAL
0.32Vp-p(H)

⑨ SECAM
0.45Vp-p(H)

⑫ NTSC3.58,4.43
5.6Vp-p(H)(3.58)
3.6Vp-p(H)(4.43)

⑯ SECAM
8Vp-p(H)

㉙ PAL
1.8Vp-p(H)

㊼ SECAM
0.8Vp-p(H)

㊿ NTSC 3.58,4.43
0.34Vp-p(H)(3.58)
0.32Vp-p(H)(4.43)

㉔ NTSC 4.43
3.2Vp-p(H)

㉗ SECAM
3Vp-p(H)

SECAM
0.9Vp-p(H)

⑥ SECAM
0.48Vp-p(H)

⑨ NTSC 3.58,4.43
0.5Vp-p(H) (3.58)
0.65Vp-p(H) (4.43)

⑬ PAL
5.6Vp-p(H)

⑰ PAL,SECAM
NTSC3.58,4.43
2.8Vp-p(H) (PAL)
8Vp-p(H) (SECAM)
7.5Vp-p(H) (3.58)
4Vp-p(H) (4.43)

㉙ SECAM
2.2Vp-p(H)

㊹ PAL
0.9Vp-p(H)

㊼ NTSC3.58,4.43
0.8Vp-p(H) (3.58)
0.7Vp-p(H) (4.43)

㊶
3.2Vp-p(H)

㉕ PAL
2.8Vp-p(H)

㉗ NTSC3.58
3.2Vp-p(H)

NTSC3.58,4.43
0.85Vp-p(H)

⑥ NTSC3.58,4.43
0.95Vp-p(H) (3.58)
0.4Vp-p(H) (4.43)

⑩ PAL
1.1Vp-p(H)

⑬ SECAM
6Vp-p(H)

㉙ NTSC 3.58,4.43
1.6Vp-p(H)(3.58)
1.8Vp-p(H)(4.43)

㊹ SECAM
1Vp-p(H)

㊽ PAL
0.7Vp-p(H)

㊷ PAL,SECAM
NTSC3.58,4.43
2.8Vp-p(4.43MHz)(PAL)
0.36Vp-p(4.43MHz)(SECAM)
0.34Vp-p(3.58MHz)(3.58)
0.28Vp-p(4.43MHz)(4.43)

㉕ SECAM
3.6Vp-p(H)

㉗ NTSC4.43
3.2Vp-p(H)

AL
3Vp-p(H)

⑦ PAL
0.9Vp-p(H)

⑩ SECAM
0.9Vp-p(H)

⑬ NTSC3.58,4.43
5.6Vp-p(H)(3.58)
3.4Vp-p(H)(4.43)

㉑
12Vp-p(H)

㉚ PAL
0.4Vp-p(H)

㊹ NTSC3.58,4.43
1.1Vp-p(H)

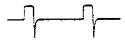
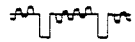
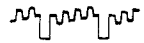
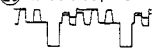
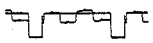
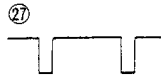
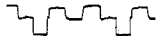
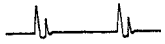
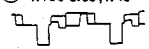
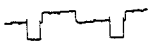
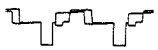
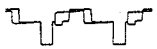
㊽ SECAM
1.1Vp-p(H)

㉕ NTSC 3.58
2.8Vp-p(H)

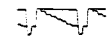
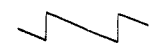
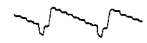
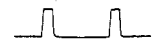
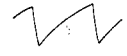
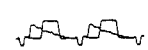
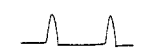
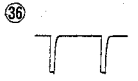
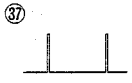
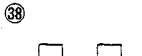
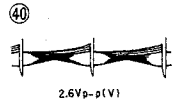
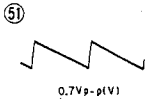
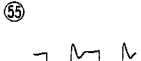
㉘ PAL
1.8Vp-p(H)

PVM-2010QM

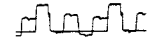
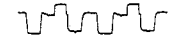
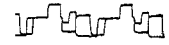
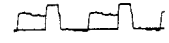
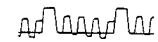
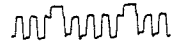
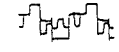
Q BOARD

⑲  1.8Vp-p(H)	㉖ PAL  6Vp-p(H)	㉞ SECAM 1.7Vp-p(H)
㉒ 11Vp-p(H)	㉖ SECAM  7.5Vp-p(H)	㉞ NTSC 3.58,4.43 1.6Vp-p(H)(3.58) 1.8Vp-p(H)(4.43)
㉓ 9Vp-p(H)	㉖ NTSC 3.58,4.43  3.6Vp-p(H)(3.58) 4.4Vp-p(H)(4.43)	
㉔ PAL  6Vp-p(H)	㉗  5Vp-p(H)	
㉔ SECAM  6Vp-p(H)	㉛ PAL, SECAM NTSC 3.58,4.43  2.8Vp-p(H)(PAL) 2.4Vp-p(H)(SECAM) 2.8Vp-p(H)(3.58) 2.8Vp-p(H)(4.43)	
㉔ NTSC 3.58,4.43  3.5Vp-p(H)(3.58) 4.4Vp-p(H)(4.43)		
㉕ PAL 5.6Vp-p(H)	㉝ PAL 0.36Vp-p(H)	
㉕ SECAM  6Vp-p(H)	㉝ SECAM 0.42Vp-p(H)	
㉕ NTSC 3.58  5.6Vp-p(H)	㉝ NTSC 3.58,4.43 0.44Vp-p(H)(3.58) 0.48Vp-p(H)(4.43)	
㉕ NTSC 4.43  4.4Vp-p(H)	㉞ PAL 2.4Vp-p(H)	

D BOARD

㉟ PAL  1.5Vp-p(H)	㊸  3.2Vp-p(V)	㊼ 820Vp-p(H)
㉟ SECAM  1.6Vp-p(H)	㊹  14Vp-p(H)	㊽  4.4Vp-p(H)
㉟ NTSC3.58,4.43  1.7Vp-p(H) 1.8Vp-p(H)	㊺  4.4Vp-p(H)	
㊱  9Vp-p(H)	㊻ 50Vp-p(V)	
㊲  8Vp-p(H)	㊼ 24Vp-p(V)	
㊳  8Vp-p(H)	㊽ 6Vp-p(V)	
㊴ 4Vp-p(V)	㊾ 2.1Vp-p(V)	
㊵  2.6Vp-p(V)	㊶  0.7Vp-p(V)	
㊶ 11.5Vp-p(V)	㊷ 0.35Vp-p(V)	
㊷ 10Vp-p(H)	㊺  110Vp-p(H)	

C1 BOARD

㊾ 19Vp-p(H)
㊿ PAL  90Vp-p(H)
㊿ SECAM  115V p-p(H)
㊿ NTSC 3.58,4.43  110V p-p(H)
(61) PAL  90V p-p(H)
(61) SECAM 90V p-p(H)
(61) NTSC 3.58,4.43 90Vp-p(H)
(62) PAL  100V p-p(H)
(62) SECAM  105V p-p(H)
(62) NTSC 3.58,4.43  100Vp-p(H)

GA BOARD

(63) 19μS 300Vp-p

SECTION 6
EXPLODED VIEWS

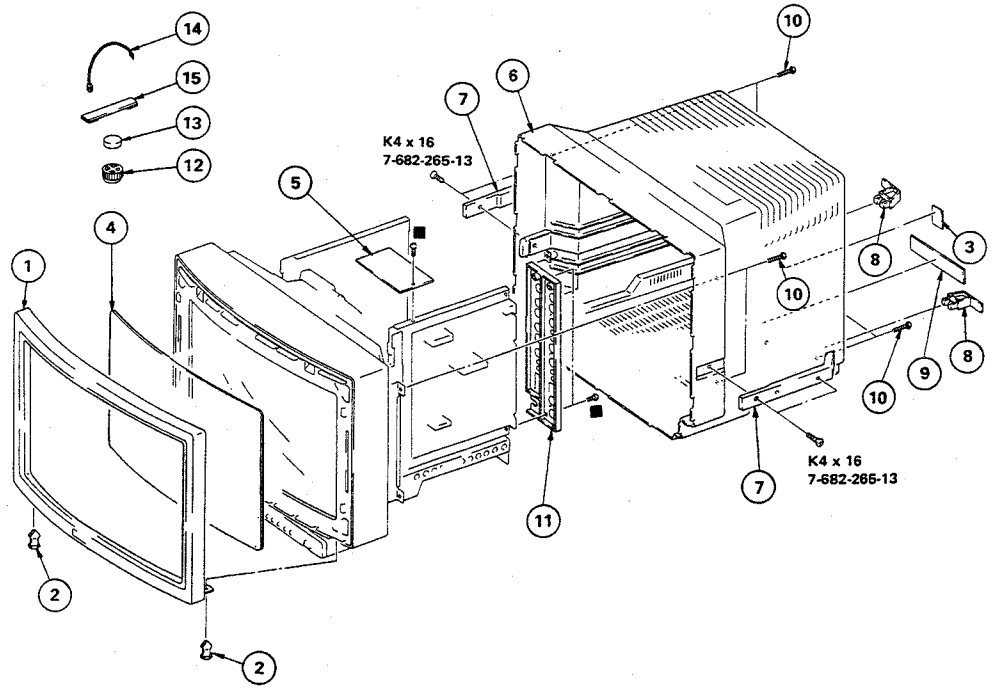
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1) CABINET ASS'Y

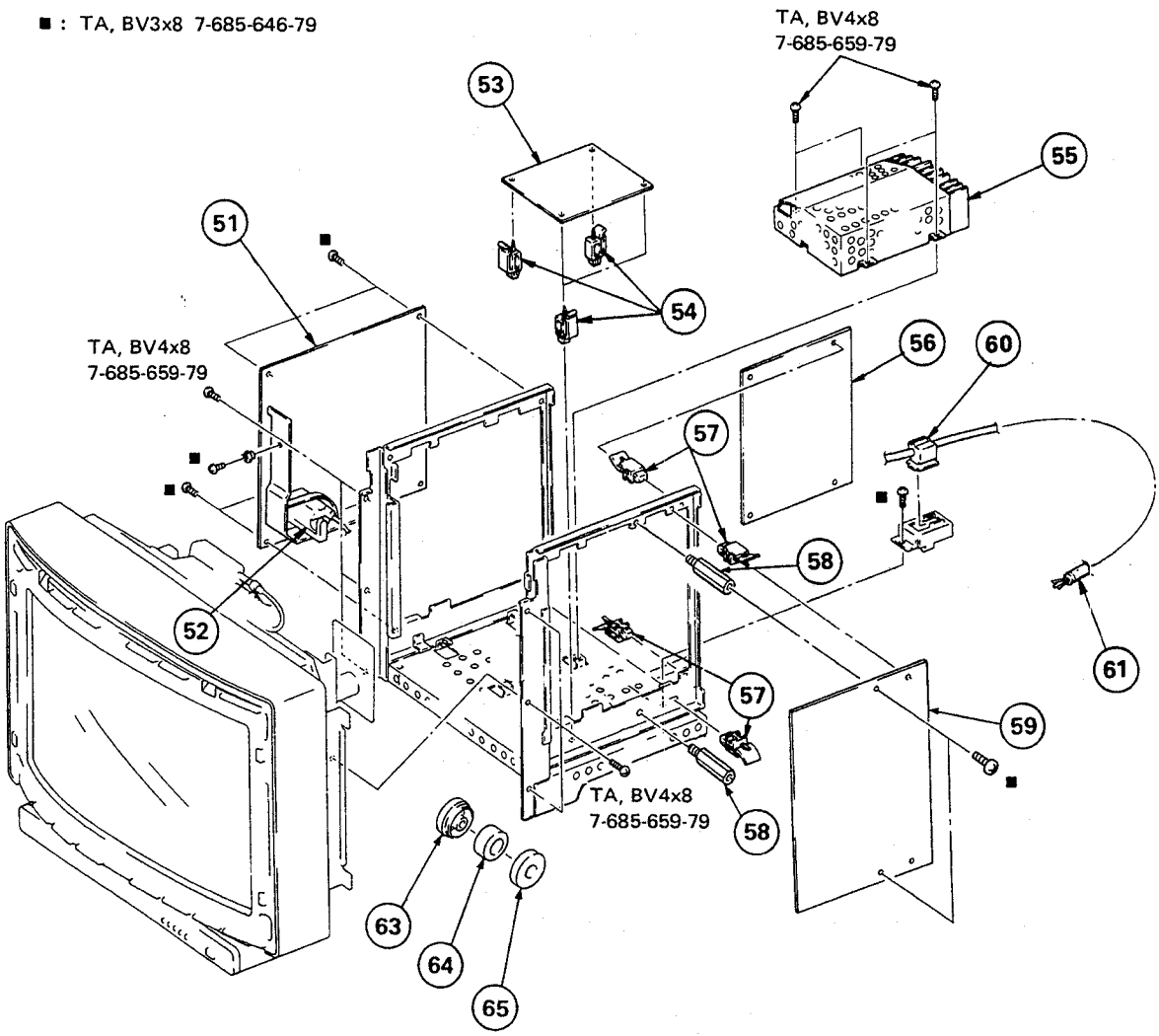
■: TA, BV3x8 7-685-646-79



No.	Part No.	Description	Remark
1	X-4370-904-1	PANEL ASSY, FRONT	
2	4-370-920-01	CLIP, PANEL	
3	*4-363-314-01	LABEL, MODEL NUMBER	
4	4-370-925-01	FILTER	
5	*1-612-246-11	C2 BOARD	
6	X-4370-903-1	CABINET ASSY	
7	X-4370-906-1	HANDLE ASSY	7,8,9
8	4-316-003-00	HOLDER, CORD	
9	4-370-907-01	SHEET (B), BLIND	
10	4-304-494-21	SCREW, TAPPING, +PW4X16	
11	4-370-930-01	PANEL, CONNECTOR	
12	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
13	1-452-032-00	MAGNET, DISK; 10MM ϕ	
14	4-308-870-00	CLIP, LEAD WIRE	
15	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	

(2) CHASSIS ASS'Y

■ : TA, BV3x8 7-685-646-79

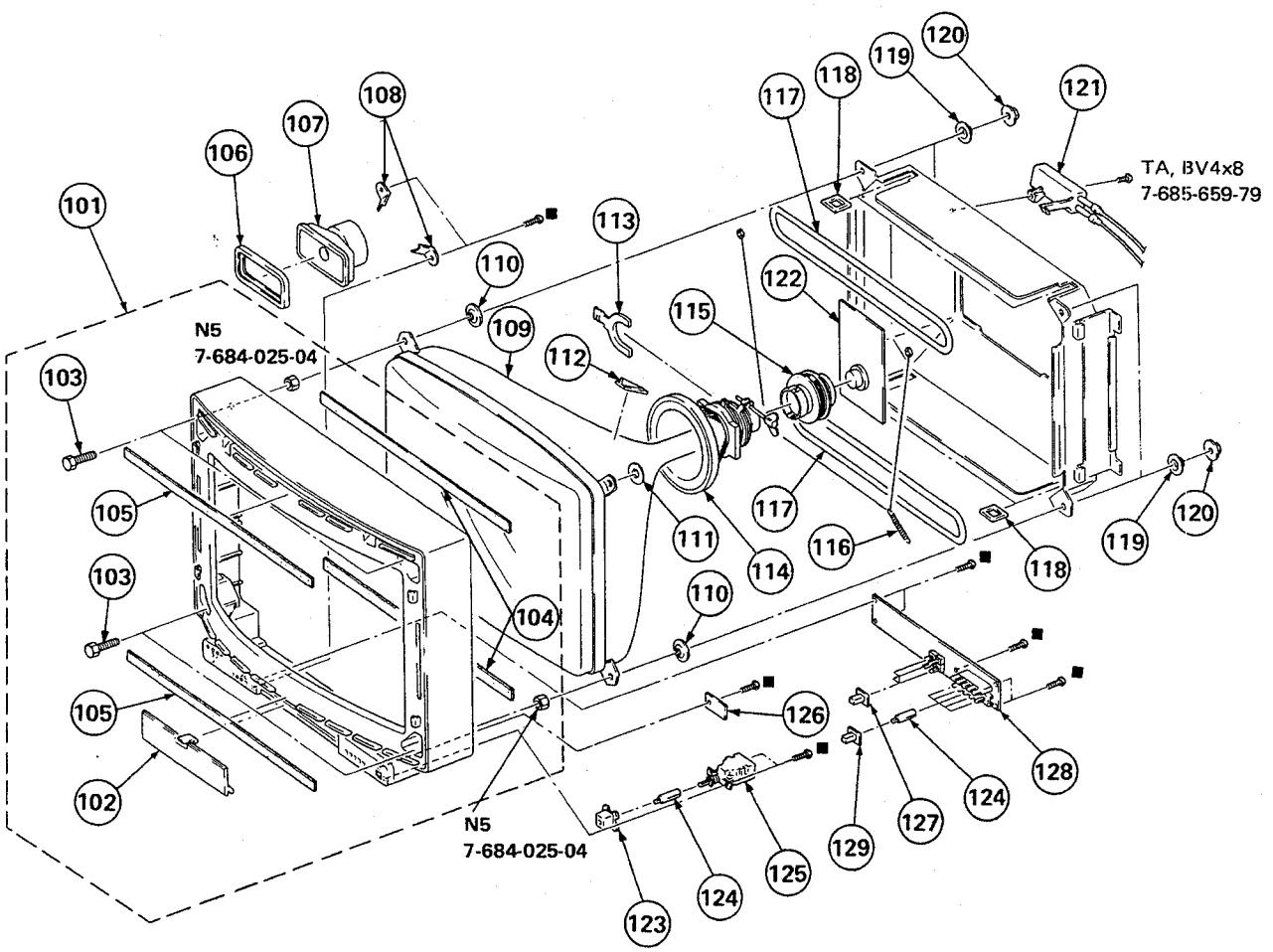


No.	Part No.	Description	Remark
51	*A-1345-455-A	D BOARD, COMPLETE	
52	⚠1-439-322-12	TRANSFORMER ASSY, FLYBACK	
53	*1-612-243-11	F BOARD	
54	*3-659-681-00	HOLDER, PC BOARD	
55	⚠1-413-179-11	SWITCHING REGULATOR (TK-09)	
56	*A-1275-050-A	Q BOARD, COMPLETE	
57	*3-703-141-00	HOLDER, PCB	
58	*3-670-570-41	SPACER, SUPPORT	
59	*A-1135-239-A	B BOARD, COMPLETE	126,128
60	⚠*4-364-745-01	BUSHING, AC CORD	
61	⚠1-534-820-13	POWER CORD	
63	1-543-179-00	CORE, RING	
64	*4-361-124-01	COVER (A), CORE	
65	*4-361-125-01	COVER (B), CORE	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(3) BEZEL ASSY

■ : TA, BV3x12 7-685-648-79



No.	Part No.	Description	Remark
101	X-4363-306-1	BEZEL ASSY	102,103,104,105
102	X-4370-907-1	DOOR ASSY	
103	3-703-025-12	BOLT M5, HEXAGON-HEAD	
104	4-304-087-02	CUSHION, (A) PICTURE TUBE	
105	4-312-539-00	CUSHION (A), BEZEL	
106	*4-364-741-00	CUSHION, SPEAKER	
107	1-503-109-00	SPEAKER	
108	*4-321-611-00	CLAW, RETAINING, SPEAKER	
109	⚠.8-737-251-05	PICTURE TUBE (A49JHT00X)	
110	4-373-615-02	WASHER, CRT POSITIONING	
111	4-801-003-00	WASHER, FLAT (DIA. 16)	
112	3-703-961-01	SPACER, DY	
113	1-452-146-00	BMC MAGNET	
114	⚠.1-451-204-63	DEFLECTION YOKE (SY-108B)	
115	⚠.1-452-337-11	NECK ASSY, CRT (NA304)	
116	4-303-774-XX	SPRING	
117	⚠.1-426-087-42	COIL, DEGAUSSING	
118	*4-322-922-00	HOLDER, COIL, DEGAUSSER	
119	4-026-534-00	WASHER, POSITION	
120	4-306-034-00	FLANGE NUT, (B) 5MM	
121	⚠.1-228-482-14	RESISTOR AASSY HIGH-VOLTAGE	
122	*A-1330-507-A	C1 BOARD, COMPLETE	
123	4-346-409-11	BUTTON, POWER	
124	*4-370-903-01	SHAFT, BUTTON	
125	⚠.1-554-967-12	SWITCH, PUSH (AC POWER)(1 KEY)	
126	*1-612-249-11	X BOARD	
127	4-369-627-01	PUSH BUTTON	
128	*1-612-248-11	H BOARD	
129	4-349-408-00	PUSH BUTTON	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS • MF : μF, PF : μμF

RESISTORS • All resistors are in ohms • F : nonflammable

COILS • MMH : mH, UH : μH

Ref.No.	Part No.	Description			Remark
	*A-1135-239-A	B BOARD, COMPLETE **********			
	*3-538-178-00	HEAT SINK			
	*4-323-833-00	HEAT SINK, PIN OUT			
		CONNECTOR			
B1	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
B2	*1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P			
B3	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
B4	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P			
B5	*1-560-156-00	PLUG, CONNECTOR (2.5MM PITCH)			
B6	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)			
B7	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P			
B8	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
		CAPACITOR			
C003	1-123-356-00	ELECT	10MF	20% 25V	
C004	1-123-356-00	ELECT	10MF	20% 25V	
C005	1-123-356-00	ELECT	10MF	20% 25V	
C006	1-123-356-00	ELECT	10MF	20% 25V	
C007	1-123-356-00	ELECT	10MF	20% 25V	
C008	1-123-380-00	ELECT	1MF	20% 50V	
C009	1-106-383-00	MYLAR	0.047MF	10% 100V	
C010	1-123-356-00	ELECT	10MF	20% 25V	
C011	1-123-356-00	ELECT	10MF	20% 25V	
C012	1-123-356-00	ELECT	10MF	20% 25V	
C013	1-123-356-00	ELECT	10MF	20% 25V	
C014	1-123-380-00	ELECT	1MF	20% 50V	
C015	1-106-383-00	MYLAR	0.047MF	10% 100V	
C017	1-106-383-00	MYLAR	0.047MF	10% 100V	
C018	1-123-380-00	ELECT	1MF	20% 50V	
C019	1-123-356-00	ELECT	10MF	20% 25V	
C020	1-123-356-00	ELECT	10MF	20% 25V	
C021	1-123-356-00	ELECT	10MF	20% 25V	
C022	1-123-356-00	ELECT	10MF	20% 25V	
C023	1-123-356-00	ELECT	10MF	20% 25V	
C024	1-123-356-00	ELECT	10MF	20% 25V	
C025	1-123-356-00	ELECT	10MF	20% 25V	
C026	1-123-332-00	ELECT	47MF	20% 25V	
C027	1-123-356-00	ELECT	10MF	20% 25V	
C028	1-102-961-00	CERAMIC	27PF	5% 50V	
C029	1-102-961-00	CERAMIC	27PF	5% 50V	
C030	1-102-961-00	CERAMIC	27PF	5% 50V	
C031	1-106-375-12	MYLAR	0.022MF	10% 100V	
C032	1-106-383-00	MYLAR	0.047MF	10% 100V	
C033	1-123-356-00	ELECT	10MF	20% 25V	
C034	1-102-114-00	CERAMIC	470PF	10% 50V	
C035	1-102-114-00	CERAMIC	470PF	10% 50V	
C036	1-102-114-00	CERAMIC	470PF	10% 50V	
C100	1-101-361-00	CERAMIC	150PF	5% 50V	
C101	1-123-332-00	ELECT	47MF	20% 16V	
C102	1-123-356-00	ELECT	10MF	20% 25V	
C103	1-102-961-00	CERAMIC	27PF	5% 50V	
C104	1-102-973-00	CERAMIC	100PF	5% 50V	
C105	1-123-356-00	ELECT	10MF	20% 16V	
C106	1-123-356-00	ELECT	10MF	20% 25V	
C107	1-102-978-00	CERAMIC	220PF	5% 50V	
C108	1-123-356-00	ELECT	10MF	20% 16V	
C109	1-102-959-00	CERAMIC	22PF	5% 50V	
C110	1-102-961-00	CERAMIC	27PF	5% 50V	
C111	1-101-888-00	CERAMIC	68PF	5% 50V	
C112	1-102-971-00	CERAMIC	82PF	5% 50V	
C113	1-102-978-00	CERAMIC	220PF	5% 50V	
C114	1-123-332-00	ELECT	47MF	20% 16V	
C115	1-123-356-00	ELECT	10MF	20% 16V	
C117	1-123-356-00	ELECT	10MF	20% 25V	
C119	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C120	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C121	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C122	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C123	1-123-380-00	ELECT	1MF	20% 50V	
C124	1-123-356-00	ELECT	10MF	20% 25V	
C127	1-101-004-00	CERAMIC	0.01MF	50V	
C128	1-123-380-00	ELECT	1MF	20% 50V	
C129	1-123-379-00	ELECT	0.47MF	20% 50V	
C130	1-123-380-00	ELECT	1MF	20% 50V	
C131	1-106-220-00	MYLAR	0.1MF	10% 100V	
C132	1-106-220-00	MYLAR	0.1MF	10% 100V	
C133	1-123-332-00	ELECT	47MF	16V	
C134	1-101-880-00	CERAMIC	47PF	5% 50V	
C135	1-101-004-00	CERAMIC	0.01MF	50V	
C136	1-101-880-00	CERAMIC	47PF	5% 50V	
C137	1-102-959-00	CERAMIC	22PF	5% 50V	
C138	1-101-004-00	CERAMIC	0.01MF	50V	
C139	1-130-483-00	MYLAR	0.01MF	5% 50V	
C140	1-123-381-00	ELECT	2.2MF	20% 50V	
C141	1-161-772-11	CERAMIC	0.1MF	10% 25V	
C142	1-161-772-11	CERAMIC	0.1MF	10% 25V	
C143	1-101-880-00	CERAMIC	47PF	5% 50V	
C144	1-101-880-00	CERAMIC	47PF	5% 50V	
C145	1-102-934-00	CERAMIC	1PF	0.25PF 50V	
C146	1-102-963-00	CERAMIC	33PF	5% 50V	
C147	1-101-004-00	CERAMIC	0.01MF	50V	
C148	1-123-356-00	ELECT	10MF	20% 25V	
C150	1-101-004-00	CERAMIC	0.01MF	50V	
C151	1-101-004-00	CERAMIC	0.01MF	50V	
C152	1-101-004-00	CERAMIC	0.01MF	50V	
C153	1-106-375-12	MYLAR	0.022MF	10% 100V	
C155	1-102-946-00	CERAMIC	9PF	0.5PF 50V	
C157	1-123-380-00	ELECT	1MF	20% 50V	
C158	1-123-382-00	ELECT	3.3MF	20% 50V	
C159	1-124-049-00	ELECT	0.47MF	20% 50V	
C160	1-102-115-00	CERAMIC	560PF	10% 50V	
C161	1-102-971-00	CERAMIC	82PF	5% 50V	
C162	1-101-361-00	CERAMIC	150PF	5% 50V	

B

Ref.No.	Part No.	Description			Remark
C163	1-102-971-00	CERAMIC	82PF	5%	50V
C164	1-121-257-00	E'LECT	4.7MF		16V
C165	1-101-361-00	CERAMIC	150PF	5%	50V
C166	1-101-888-00	CERAMIC	68PF	5%	50V
C167	1-101-006-00	CERAMIC	0.047MF		50V
C169	1-106-220-00	MY'AR	0.1MF	10%	100V
C170	1-123-380-00	E'LECT	1MF	20%	50V
C172	1-101-888-00	CERAMIC	68PF	5%	50V
C173	1-106-359-00	MY'AR	0.0047MF	10%	100V
C175	1-101-361-00	CERAMIC	150PF	5%	50V
C176	1-102-951-00	CERAMIC	15PF	5%	50V
C177	1-101-888-00	CERAMIC	68PF	5%	50V
C178	1-123-356-00	E'LECT	10MF	20%	25V
C179	1-101-004-00	CERAMIC	0.01MF		50V
C180	1-123-324-00	E'LECT	1000MF	20%	16V
C183	1-123-379-00	E'LECT	0.47MF	20%	50V
C184	1-123-356-00	E'LECT	10MF	20%	25V
C186	1-123-356-00	E'LECT	10MF	20%	25V
C187	1-101-004-00	CERAMIC	0.01MF		50V
C188	1-123-356-00	E'LECT	10MF	20%	25V
C189	1-123-356-00	E'LECT	10MF	20%	25V
C190	1-123-356-00	E'LECT	10MF	20%	25V
C191	1-123-323-00	E'LECT	470MF	20%	16V
C200	1-124-463-00	E'LECT	0.1MF	20%	50V
C201	1-124-463-00	E'LECT	0.1MF	20%	50V
C202	1-124-463-00	E'LECT	0.1MF	20%	50V
C203	1-121-257-00	E'LECT	4.7MF		16V
C204	1-123-381-00	E'LECT	2.2MF	20%	50V
C205	1-101-888-00	CERAMIC	68PF	5%	50V
C206	1-102-892-00	CERAMIC	22PF	5%	50V
C207	1-102-679-00	CERAMIC	120PF	5%	50V
C208	1-101-880-00	CERAMIC	47PF	5%	50V
C209	1-102-971-00	CERAMIC	82PF	5%	50V
C210	1-101-361-00	CERAMIC	150PF	5%	50V
C211	1-106-367-00	MY'AR	0.01MF	10%	100V
C212	1-123-356-00	E'LECT	10MF	20%	25V
C213	1-101-004-00	CERAMIC	0.01MF		50V
C214	1-130-483-00	MY'AR	0.01MF	5%	50V
C215	1-102-892-00	CERAMIC	22PF	5%	50V
C216	1-102-824-00	CERAMIC	470PF	5%	50V
C217	1-123-356-00	E'LECT	10MF	20%	25V
C220	1-123-326-00	E'LECT	3300MF	20%	16V
C221	1-106-220-00	MY'AR	0.1MF	10%	100V
C223	1-123-332-00	E'LECT	47MF	20%	16V
C224	1-123-369-00	E'LECT	4.7MF	20%	25V
C225	1-123-380-00	E'LECT	1MF	20%	50V
C226	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C227	1-130-491-00	MY'AR	0.047MF	5%	50V
C228	1-123-332-00	E'LECT	47MF	20%	25V
C229	1-123-380-00	E'LECT	1MF	20%	50V
C230	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C231	1-123-356-00	E'LECT	10MF	20%	16V
C232	1-123-356-00	E'LECT	10MF	20%	16V
C233	1-123-379-00	E'LECT	0.47MF	20%	50V
C234	1-106-367-00	MY'AR	0.01MF	10%	100V
C235	1-123-321-00	E'LECT	220MF	20%	16V
C236	1-101-004-00	CERAMIC	0.01MF		50V
C237	1-161-330-00	CERAMIC	0.01MF	30%	25V
C238	1-123-332-00	E'LECT	47MF	20%	16V
C239	1-101-004-00	CERAMIC	0.01MF		50V
C240	1-102-959-00	CERAMIC	22PF	5%	50V
C241	1-102-959-00	CERAMIC	22PF	5%	50V
C242	1-123-356-00	E'LECT	10MF	20%	25V
C243	1-101-004-00	CERAMIC	0.01MF		50V
C244	1-101-004-00	CERAMIC	0.01MF		50V
C245	1-101-004-00	CERAMIC	0.01MF		50V
C343	1-101-004-00	CERAMIC	0.01MF		50V

DIODE

D001	8-719-911-19	DIODE 1SS119
D002	8-719-911-19	DIODE 1SS119
D003	8-719-911-19	DIODE 1SS119
D004	8-719-911-19	DIODE 1SS119
D005	8-719-911-19	DIODE 1SS119
D006	8-719-200-02	DIODE 10E2
D007	8-719-911-19	DIODE 1SS119
D008	8-719-200-02	DIODE 10E2
D101	8-719-911-19	DIODE 1SS119
D102	8-719-911-19	DIODE 1SS119
D103	8-719-908-06	DIODE ERA81-005
D104	8-719-911-19	DIODE 1SS119
D105	8-719-911-19	DIODE 1SS119
D106	8-719-911-19	DIODE 1SS119
D107	8-719-911-19	DIODE 1SS119
D108	8-719-911-19	DIODE 1SS119
D109	8-719-911-19	DIODE 1SS119
D110	8-719-911-19	DIODE 1SS119
D111	8-719-911-19	DIODE 1SS119
D112	8-719-911-19	DIODE 1SS119
D113	8-719-911-19	DIODE 1SS119
D114	8-719-911-19	DIODE 1SS119
D115	8-719-911-19	DIODE 1SS119
D116	8-719-911-19	DIODE 1SS119
D117	8-719-911-19	DIODE 1SS119
D118	8-719-911-19	DIODE 1SS119
D119	8-719-911-19	DIODE 1SS119
D120	8-719-911-19	DIODE 1SS119
D121	8-719-911-19	DIODE 1SS119
D122	8-719-911-19	DIODE 1SS119
D123	8-719-911-19	DIODE 1SS119
D124	8-719-100-38	DIODE RD6.2E-B2
D125	8-719-911-19	DIODE 1SS119
D126	8-719-911-19	DIODE 1SS119

DE'AY 'INE

D'101	1-415-280-00	DE'AY 'INE (1H)

Ref.No.	Part No.	Description	Remark
DL102	1-415-188-00	DELAY LINE	
DL103	1-415-122-31	DELAY LINE, 1H (PAL)	
		IC	
IC001	8-759-700-06	IC NJM7812B	
IC101	8-752-006-10	IC CX20061	
IC102	8-752-006-10	IC CX20061	
IC103	8-759-113-65	IC UPC1365C	
IC104	8-759-240-24	IC TC4024BP	
IC105	8-759-240-23	IC TC4023BP	
IC201	8-759-100-15	IC UPC1364C	
IC202	8-759-101-77	IC UPC1241H	
IC203	8-759-610-95	IC CX095E	
		JACK	
J1	1-562-121-00	CONNECTOR, DIN 6P	
J2	1-536-842-11	TERMINAL BOARD, INPUT/OUTPUT(A)	
		COIL	
L101	1-408-412-00	MICRO INDUCTOR 18UH	
L102	1-408-412-00	MICRO INDUCTOR 18UH	
L103	1-408-411-00	MICRO INDUCTOR 15UH	
L104	1-408-414-00	MICRO INDUCTOR 27UH	
L105	1-408-414-00	MICRO INDUCTOR 27UH	
L106	1-408-409-00	MICRO INDUCTOR 10UH	
L107	1-408-407-00	MICRO INDUCTOR 6.8UH	
L108	1-408-416-00	MICRO INDUCTOR 39UH	
L110	1-408-412-00	MICRO INDUCTOR 18UH	
L111	1-408-406-00	MICRO INDUCTOR 5.6UH	
L112	1-408-408-00	MICRO INDUCTOR 8.2UH	
L113	1-408-415-00	MICRO INDUCTOR 33UH	
L201	1-408-245-00	MICRO INDUCTOR 22MMH	
L202	1-408-163-00	MICRO INDUCTOR 5.6MMH	
L203	1-408-414-00	MICRO INDUCTOR 27UH	
L204	1-408-421-00	MICRO INDUCTOR 100UH	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2785	
Q002	8-729-117-54	TRANSISTOR 2SA1175	
Q003	8-729-117-54	TRANSISTOR 2SA1175	
Q004	8-729-117-54	TRANSISTOR 2SA1175	
Q005	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-117-54	TRANSISTOR 2SA1175	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-117-54	TRANSISTOR 2SA1175	
Q010	8-729-178-54	TRANSISTOR 2SC2785	
Q011	8-729-178-54	TRANSISTOR 2SC2785	
Q012	8-729-117-54	TRANSISTOR 2SA1175	
Q101	8-729-178-54	TRANSISTOR 2SC2785	
Q102	8-729-178-54	TRANSISTOR 2SC2785	
Q103	8-729-178-54	TRANSISTOR 2SC2785	
Q104	8-729-178-54	TRANSISTOR 2SC2785	
Q105	8-729-178-54	TRANSISTOR 2SC2785	
Q106	8-729-178-54	TRANSISTOR 2SC2785	
Q107	8-729-178-54	TRANSISTOR 2SC2785	
Q108	8-729-178-54	TRANSISTOR 2SC2785	
Q109	8-729-117-54	TRANSISTOR 2SA1175	
Q110	8-729-178-54	TRANSISTOR 2SC2785	
Q111	8-729-178-54	TRANSISTOR 2SC2785	
Q113	8-729-178-54	TRANSISTOR 2SC2785	
Q116	8-729-117-54	TRANSISTOR 2SA1175	
Q117	8-729-178-54	TRANSISTOR 2SC2785	
Q118	8-729-178-54	TRANSISTOR 2SC2785	
Q120	8-729-178-54	TRANSISTOR 2SC2785	
Q121	8-729-117-54	TRANSISTOR 2SA1175	
Q122	8-729-178-54	TRANSISTOR 2SC2785	
Q123	8-729-178-54	TRANSISTOR 2SC2785	
Q124	8-769-200-30	TRANSISTOR 2SK107-3	
Q125	8-729-178-54	TRANSISTOR 2SC2785	
Q126	8-729-115-30	TRANSISTOR 2SK105A-30	
Q127	8-729-115-30	TRANSISTOR 2SK105A-30	
Q128	8-729-115-30	TRANSISTOR 2SK105A-30	
Q129	8-729-178-54	TRANSISTOR 2SC2785	
Q130	8-729-178-54	TRANSISTOR 2SC2785	
Q131	8-729-115-30	TRANSISTOR 2SK105A-30	
Q132	8-729-115-30	TRANSISTOR 2SK105A-30	
Q133	8-729-178-54	TRANSISTOR 2SC2785	
Q135	8-729-117-54	TRANSISTOR 2SA1175	
Q136	8-729-117-54	TRANSISTOR 2SA1175	
Q137	8-729-117-54	TRANSISTOR 2SA1175	
Q138	8-729-117-54	TRANSISTOR 2SA1175	
Q139	8-729-178-54	TRANSISTOR 2SC2785	
Q140	8-729-117-54	TRANSISTOR 2SA1175	
Q141	8-729-117-54	TRANSISTOR 2SA1175	
Q142	8-729-117-54	TRANSISTOR 2SA1175	
Q143	8-729-117-54	TRANSISTOR 2SA1175	
Q144	8-729-178-54	TRANSISTOR 2SC2785	
Q145	8-729-178-54	TRANSISTOR 2SC2785	
Q148	8-729-178-54	TRANSISTOR 2SC2785	
Q149	8-729-117-54	TRANSISTOR 2SA1175	
Q150	8-729-117-54	TRANSISTOR 2SA1175	
Q151	8-729-178-54	TRANSISTOR 2SC2785	
Q152	8-729-178-54	TRANSISTOR 2SC2785	
Q153	8-729-178-54	TRANSISTOR 2SC2785	
Q154	8-729-178-54	TRANSISTOR 2SC2785	
Q155	8-729-178-54	TRANSISTOR 2SC2785	
Q156	8-729-178-54	TRANSISTOR 2SC2785	
Q157	8-729-178-54	TRANSISTOR 2SC2785	
Q158	8-769-200-30	TRANSISTOR 2SK107-3	
Q159	8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
JW5	1-247-717-11	CARBON 2.2K 5% 1/4W	
R002	1-249-417-11	CARBON 1K 5% 1/6W	

B

Ref.No.	Part No.	Description				Remark
R003	1-249-434-11	CARBON	27K	5%	1/6W	
R004	1-249-424-11	CARBON	3.9K	5%	1/6W	
R005	1-249-421-11	CARBON	2.2K	5%	1/6W	
R006	1-249-439-11	CARBON	68K	5%	1/6W	
R007	1-249-433-11	CARBON	22K	5%	1/6W	
R009	1-215-440-00	CARBON	6.2K	5%	1/6W	
R010	1-215-440-00	CARBON	6.2K	5%	1/6W	
R011	1-215-440-00	CARBON	6.2K	5%	1/6W	
R012	1-249-437-11	CARBON	47K	5%	1/6W	
R013	1-249-440-11	CARBON	82K	5%	1/6W	
R014	1-247-885-00	CARBON	180K	5%	1/6W	
R015	1-249-438-11	CARBON	56K	5%	1/6W	
R016	1-249-417-11	CARBON	1K	5%	1/6W	
R017	1-215-394-00	CARBON	75	5%	1/6W	
R019	1-215-394-00	CARBON	75	5%	1/6W	
R020	1-249-434-11	CARBON	27K	5%	1/6W	
R021	1-249-424-11	CARBON	3.9K	5%	1/6W	
R022	1-249-433-11	CARBON	22K	5%	1/6W	
R023	1-249-439-11	CARBON	68K	5%	1/6W	
R024	1-215-440-00	CARBON	6.2K	5%	1/6W	
R025	1-249-437-11	CARBON	47K	5%	1/6W	
R026	1-249-438-11	CARBON	56K	5%	1/6W	
R027	1-249-440-11	CARBON	82K	5%	1/6W	
R028	1-247-885-00	CARBON	180K	5%	1/6W	
R029	1-249-429-11	CARBON	10K	5%	1/6W	
R030	1-247-885-00	CARBON	180K	5%	1/6W	
R031	1-249-440-11	CARBON	82K	5%	1/6W	
R032	1-249-437-11	CARBON	47K	5%	1/6W	
R033	1-249-433-11	CARBON	22K	5%	1/6W	
R034	1-249-439-11	CARBON	68K	5%	1/6W	
R035	1-249-417-11	CARBON	1K	5%	1/6W	
R036	1-215-394-00	CARBON	75	5%	1/6W	
R037	1-249-434-11	CARBON	27K	5%	1/6W	
R038	1-249-424-11	CARBON	3.9K	5%	1/6W	
R039	1-215-440-00	CARBON	6.2K	5%	1/6W	
R040	1-249-439-11	CARBON	68K	5%	1/6W	
R041	1-215-394-00	CARBON	75	5%	1/6W	
R042	1-249-434-11	CARBON	27K	5%	1/6W	
R043	1-215-468-00	CARBON	91K	5%	1/6W	
R045	1-249-429-11	CARBON	10K	5%	1/6W	
R046	1-249-428-11	CARBON	8.2K	5%	1/6W	
R049	1-249-438-11	CARBON	56K	5%	1/6W	
R051	1-249-421-11	CARBON	2.2K	5%	1/6W	
R052	1-249-413-11	CARBON	470	5%	1/6W	
R053	1-249-437-11	CARBON	47K	5%	1/6W	
R054	1-249-437-11	CARBON	47K	5%	1/6W	
R055	1-249-440-11	CARBON	82K	5%	1/6W	
R056	1-249-460-11	CARBON	15K	5%	1/4W	
R068	1-249-405-11	CARBON	100	5%	1/6W	
R070	1-246-457-00	CARBON	220	5%	1/4W	
R071	1-249-447-11	CARBON	1	5%	1/4W	F
R100	1-249-428-11	CARBON	8.2K	5%	1/6W	
R101	1-249-436-11	CARBON	39K	5%	1/6W	
R102	1-249-409-11	CARBON	220	5%	1/6W	
R103	1-249-418-11	CARBON	1.2K	5%	1/6W	
R104	1-249-411-11	CARBON	330	5%	1/6W	
R105	1-249-415-11	CARBON	680	5%	1/6W	
R106	1-249-423-11	CARBON	3.3K	5%	1/6W	
R107	1-249-426-11	CARBON	5.6K	5%	1/6W	
R108	1-249-429-11	CARBON	10K	5%	1/6W	
R109	1-249-413-11	CARBON	470	5%	1/6W	
R110	1-249-413-11	CARBON	470	5%	1/6W	
R111	1-249-421-11	CARBON	2.2K	5%	1/6W	
R112	1-249-415-11	CARBON	680	5%	1/6W	
R113	1-249-410-11	CARBON	270	5%	1/6W	
R114	1-249-415-11	CARBON	680	5%	1/6W	
R115	1-249-419-11	CARBON	1.5K	5%	1/6W	
R116	1-249-403-11	CARBON	68	5%	1/6W	
R117	1-249-415-11	CARBON	680	5%	1/6W	
R118	1-249-415-11	CARBON	680	5%	1/6W	
R119	1-249-405-11	CARBON	100	5%	1/6W	
R120	1-249-415-11	CARBON	680	5%	1/6W	
R121	1-249-415-11	CARBON	680	5%	1/6W	
R122	1-249-405-11	CARBON	100	5%	1/6W	
R123	1-249-417-11	CARBON	1K	5%	1/6W	
R124	1-249-413-11	CARBON	470	5%	1/6W	
R125	1-249-417-11	CARBON	1K	5%	1/6W	
R126	1-249-405-11	CARBON	100	5%	1/6W	
R127	1-249-415-11	CARBON	680	5%	1/6W	
R128	1-247-814-00	CARBON	200	5%	1/6W	
R129	1-249-419-11	CARBON	1.5K	5%	1/6W	
R130	1-249-415-11	CARBON	680	5%	1/6W	
R131	1-249-413-11	CARBON	470	5%	1/6W	
R132	1-249-420-11	CARBON	1.8K	5%	1/6W	
R133	1-249-401-11	CARBON	47	5%	1/6W	
R135	1-249-409-11	CARBON	220	5%	1/6W	
R136	1-249-421-11	CARBON	2.2K	5%	1/6W	
R137	1-249-432-11	CARBON	18K	5%	1/6W	
R138	1-249-423-11	CARBON	3.3K	5%	1/6W	
R139	1-249-429-11	CARBON	10K	5%	1/6W	
R140	1-249-433-11	CARBON	22K	5%	1/6W	
R141	1-249-433-11	CARBON	22K	5%	1/6W	
R143	1-249-405-11	CARBON	100	5%	1/6W	
R144	1-249-433-11	CARBON	22K	5%	1/6W	
R145	1-249-433-11	CARBON	22K	5%	1/6W	
R147	1-249-419-11	CARBON	1.5K	5%	1/6W	
R148	1-249-419-11	CARBON	1.5K	5%	1/6W	
R149	1-249-433-11	CARBON	22K	5%	1/6W	
R150	1-249-416-11	CARBON	820	5%	1/6W	
R151	1-249-413-11	CARBON	470	5%	1/6W	
R152	1-249-416-11	CARBON	820	5%	1/6W	
R153	1-249-423-11	CARBON	3.3K	5%	1/6W	
R154	1-249-433-11	CARBON	22K	5%	1/6W	
R155	1-249-429-11	CARBON	10K	5%	1/6W	
R156	1-249-435-11	CARBON	33K	5%	1/6W	
R157	1-249-435-11	CARBON	33K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R158	1-249-439-11	CARBON	68K	5%	1/6W	
R159	1-249-415-11	CARBON	680	5%	1/6W	
R160	1-249-436-11	CARBON	39K	5%	1/6W	
R161	1-249-429-11	CARBON	10K	5%	1/6W	
R162	1-249-437-11	CARBON	47K	5%	1/6W	
R165	1-215-493-00	CARBON	1M	5%	1/6W	
R167	1-249-419-11	CARBON	1.5K	5%	1/6W	
R168	1-249-435-11	CARBON	33K	5%	1/6W	
R170	1-249-431-11	CARBON	15K	5%	1/6W	
R171	1-249-441-11	CARBON	100K	5%	1/6W	
R173	1-249-425-11	CARBON	4.7K	5%	1/6W	
R176	1-247-887-00	CARBON	220K	5%	1/6W	
R177	1-249-441-11	CARBON	100K	5%	1/6W	
R178	1-247-883-00	CARBON	150K	5%	1/6W	
R179	1-249-439-11	CARBON	68K	5%	1/6W	
R180	1-249-417-11	CARBON	1K	5%	1/6W	
R181	1-249-429-11	CARBON	10K	5%	1/6W	
R182	1-249-437-11	CARBON	47K	5%	1/6W	
R183	1-249-423-11	CARBON	3.3K	5%	1/6W	
R184	1-249-418-11	CARBON	1.2K	5%	1/6W	
R185	1-249-440-11	CARBON	82K	5%	1/6W	
R186	1-249-413-11	CARBON	470	5%	1/6W	
R187	1-249-434-11	CARBON	27K	5%	1/6W	
R188	1-249-435-11	CARBON	33K	5%	1/6W	
R189	1-249-439-11	CARBON	68K	5%	1/6W	
R190	1-249-435-11	CARBON	33K	5%	1/6W	
R191	1-249-437-11	CARBON	47K	5%	1/6W	
R192	1-249-421-11	CARBON	2.2K	5%	1/6W	
R193	1-249-424-11	CARBON	3.9K	5%	1/6W	
R194	1-249-431-11	CARBON	15K	5%	1/6W	
R195	1-249-421-11	CARBON	2.2K	5%	1/6W	
R196	1-249-434-11	CARBON	27K	5%	1/6W	
R197	1-249-415-11	CARBON	680	5%	1/6W	
R198	1-249-415-11	CARBON	680	5%	1/6W	
R199	1-249-417-11	CARBON	1K	5%	1/6W	
R200	1-249-441-11	CARBON	100K	5%	1/6W	
R201	1-215-493-00	CARBON	1M	5%	1/6W	
R202	1-215-493-00	CARBON	1M	5%	1/6W	
R203	1-249-429-11	CARBON	10K	5%	1/6W	
R204	1-249-429-11	CARBON	10K	5%	1/6W	
R205	1-249-429-11	CARBON	10K	5%	1/6W	
R206	1-249-439-11	CARBON	68K	5%	1/6W	
R207	1-249-409-11	CARBON	220	5%	1/6W	
R208	1-249-429-11	CARBON	10K	5%	1/6W	
R209	1-249-435-11	CARBON	33K	5%	1/6W	
R210	1-249-409-11	CARBON	220	5%	1/6W	
R211	1-249-409-11	CARBON	220	5%	1/6W	
R212	1-249-424-11	CARBON	3.9K	5%	1/6W	
R213	1-249-409-11	CARBON	220	5%	1/6W	
R214	1-249-409-11	CARBON	220	5%	1/6W	
R215	1-249-425-11	CARBON	4.7K	5%	1/6W	
R216	1-249-441-11	CARBON	100K	5%	1/6W	
R217	1-249-441-11	CARBON	100K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R218	1-249-429-11	CARBON	10K	5%	1/6W	
R219	1-249-426-11	CARBON	5.6K	5%	1/6W	
R220	1-249-435-11	CARBON	33K	5%	1/6W	
R221	1-249-436-11	CARBON	39K	5%	1/6W	
R222	1-249-439-11	CARBON	68K	5%	1/6W	
R223	1-249-426-11	CARBON	5.6K	5%	1/6W	
R224	1-247-891-00	CARBON	330K	5%	1/6W	
R225	1-249-441-11	CARBON	100K	5%	1/6W	
R226	1-215-468-00	CARBON	91K	5%	1/6W	
R228	1-249-419-11	CARBON	1.5K	5%	1/6W	
R230	1-249-425-11	CARBON	4.7K	5%	1/6W	
R231	1-249-438-11	CARBON	56K	5%	1/6W	
R232	1-249-412-11	CARBON	390	5%	1/6W	
R233	1-249-409-11	CARBON	220	5%	1/6W	
R234	1-249-409-11	CARBON	220	5%	1/6W	
R235	1-249-413-11	CARBON	470	5%	1/6W	
R236	1-249-405-11	CARBON	100	5%	1/6W	
R237	1-249-409-11	CARBON	220	5%	1/6W	
R238	1-249-435-11	CARBON	33K	5%	1/6W	
R239	1-249-440-11	CARBON	82K	5%	1/6W	
R240	1-247-838-00	CARBON	2K	5%	1/6W	
R241	1-249-433-11	CARBON	22K	5%	1/6W	
R242	1-215-444-00	CARBON	9.1K	5%	1/6W	
R243	1-249-430-11	CARBON	12K	5%	1/6W	
R244	1-249-423-11	CARBON	3.3K	5%	1/6W	
R245	1-249-426-11	CARBON	5.6K	5%	1/6W	
R246	1-249-429-11	CARBON	10K	5%	1/6W	
R247	1-249-431-11	CARBON	15K	5%	1/6W	
R248	1-249-421-11	CARBON	2.2K	5%	1/6W	
R249	1-249-437-11	CARBON	47K	5%	1/6W	
R250	1-247-885-00	CARBON	180K	5%	1/6W	
R251	1-249-426-11	CARBON	5.6K	5%	1/6W	
R252	1-249-428-11	CARBON	8.2K	5%	1/6W	
R253	1-249-423-11	CARBON	3.3K	5%	1/6W	
R254	1-249-429-11	CARBON	10K	5%	1/6W	
R255	1-249-417-11	CARBON	1K	5%	1/6W	
R256	1-249-428-11	CARBON	8.2K	5%	1/6W	
R258	1-249-421-11	CARBON	2.2K	5%	1/6W	
R259	1-249-428-11	CARBON	8.2K	5%	1/6W	
R260	1-249-439-11	CARBON	68K	5%	1/6W	
R261	1-249-429-11	CARBON	10K	5%	1/6W	
R262	1-249-441-11	CARBON	100K	5%	1/6W	
R263	1-249-429-11	CARBON	10K	5%	1/6W	
R264	1-249-439-11	CARBON	68K	5%	1/6W	
R265	1-249-429-11	CARBON	10K	5%	1/6W	
R266	1-249-429-11	CARBON	10K	5%	1/6W	
R267	1-249-433-11	CARBON	22K	5%	1/6W	
R268	1-249-439-11	CARBON	68K	5%	1/6W	
R269	1-249-429-11	CARBON	10K	5%	1/6W	
R270	1-249-415-11	CARBON	680	5%	1/6W	
R271	1-249-469-11	CARBON	100K	5%	1/4W	
R272	1-246-517-25	CARBON	68K	5%	1/4W	
R273	1-202-463-00	SO-ID	2.2M	10%	1/4W	

B

Ref.No.	Part No.	Description				Remark
R274	1-249-465-11	CARBON	47K	5%	1/4W	
R275	1-249-429-11	CARBON	10K	5%	1/6W	
R276	1-249-431-11	CARBON	15K	5%	1/6W	
R277	1-249-416-11	CARBON	820	5%	1/6W	
R278	1-249-426-11	CARBON	5.6K	5%	1/6W	
R279	1-247-726-11	CARBON	33K	5%	1/4W	
R280	1-249-437-11	CARBON	47K	5%	1/6W	
R281	1-249-431-11	CARBON	15K	5%	1/6W	
R282	1-249-421-11	CARBON	2.2K	5%	1/8W	F
R283	1-249-425-11	CARBON	4.7K	5%	1/6W	
R284	1-249-428-11	CARBON	8.2K	5%	1/6W	
R285	1-249-423-11	CARBON	3.3K	5%	1/6W	
R286	1-249-423-11	CARBON	3.3K	5%	1/6W	
R287	1-215-493-00	CARBON	1M	5%	1/6W	
R288	1-249-441-11	CARBON	100K	5%	1/6W	
R290	1-249-429-11	CARBON	10K	5%	1/6W	
R291	1-249-429-11	CARBON	10K	5%	1/6W	
R292	1-249-447-11	CARBON	1	5%	1/4W	
R293	1-249-422-11	CARBON	2.7K	5%	1/6W	
R294	1-249-405-11	CARBON	100	5%	1/6W	
R295	1-249-425-11	CARBON	4.7K	5%	1/6W	
R296	1-249-469-11	CARBON	100K	5%	1/4W	
R297	1-249-437-11	CARBON	47K	5%	1/6W	
R298	1-249-437-11	CARBON	47K	5%	1/6W	
R299	1-249-413-11	CARBON	470	5%	1/6W	
R301	1-247-658-00	CARBON	47	5%	1/4W	F
R302	1-249-437-11	CARBON	47K	5%	1/6W	
R303	1-249-417-11	CARBON	1K	5%	1/6W	
R304	1-249-417-11	CARBON	1K	5%	1/6W	
R305	1-249-417-11	CARBON	1K	5%	1/6W	
R306	1-247-883-00	CARBON	150K	5%	1/6W	
R307	1-249-411-11	CARBON	330	5%	1/6W	
R308	1-249-434-11	CARBON	27K	5%	1/6W	
R309	1-249-409-11	CARBON	220	5%	1/6W	
R310	1-249-423-11	CARBON	3.3K	5%	1/6W	
R311	1-215-462-00	CARBON	51K	5%	1/6W	
R312	1-249-421-11	CARBON	2.2K	5%	1/6W	
R313	1-249-425-11	CARBON	4.7K	5%	1/6W	
R314	1-249-435-11	CARBON	33K	5%	1/6W	
R315	1-249-419-11	CARBON	1.5K	5%	1/6W	
R316	1-249-419-11	CARBON	1.5K	5%	1/6W	
R317	1-247-711-11	CARBON	680	5%	1/4W	
R318	1-249-408-11	CARBON	180	5%	1/6W	
R319	1-249-413-11	CARBON	470	5%	1/6W	
R322	1-249-427-11	CARBON	6.8K	5%	1/6W	
R324	1-247-713-11	CARBON	1K	5%	1/4W	
R325	1-249-429-11	CARBON	10K	5%	1/6W	
R326	1-249-424-11	CARBON	3.9K	5%	1/6W	
R328	1-247-838-00	CARBON	2K	5%	1/6W	
R329	1-249-424-11	CARBON	3.9K	5%	1/6W	
R332	1-249-438-11	CARBON	56K	5%	1/6W	
R335	1-249-437-11	CARBON	47K	5%	1/6W	
R336	1-249-433-11	CARBON	22K	5%	1/6W	
R337	1-249-439-11	CARBON	68K	5%	1/6W	
R338	1-249-429-11	CARBON	10K	5%	1/6W	
R339	1-249-421-11	CARBON	2.2K	5%	1/6W	
R340	1-249-409-11	CARBON	220	5%	1/6W	
R341	1-249-429-11	CARBON	10K	5%	1/6W	
R342	1-249-422-11	CARBON	2.7K	5%	1/6W	
R343	1-249-417-11	CARBON	1K	5%	1/6W	
R344	1-249-417-11	CARBON	1K	5%	1/6W	
R345	1-249-422-11	CARBON	2.7K	5%	1/6W	
R346	1-249-422-11	CARBON	2.7K	5%	1/6W	
R347	1-249-424-11	CARBON	3.9K	5%	1/6W	
R348	1-249-430-11	CARBON	12K	5%	1/6W	
R349	1-249-429-11	CARBON	10K	5%	1/6W	

VARIABLE RESISTOR

RV101	1-226-845-00	RES, ADJ, CARBON 330
RV103	1-226-849-00	RES, ADJ, CARBON 3.3K
RV104	1-226-852-00	RES, ADJ, CARBON 22K
RV105	1-226-852-00	RES, ADJ, CARBON 22K
RV106	1-226-849-00	RES, ADJ, CARBON 3.3K
RV107	1-228-724-00	RES, ADJ, CARBON 10K
RV108	1-226-850-00	RES, ADJ, CARBON 4.7K
RV109	1-226-850-00	RES, ADJ, CARBON 4.7K
RV110	1-226-846-00	RES, ADJ, CARBON 470
RV111	1-226-853-00	RES, ADJ, CARBON 47K

SWITCH

S1	1-553-725-00	SWITCH, SLIDE
S2	1-553-725-00	SWITCH, SLIDE
S3	1-553-725-00	SWITCH, SLIDE

TRANSFORMER

T101	1-408-513-00	COIL (VARIABLE)
T102	1-409-193-00	COIL 3.58MHZ TRAP
T103	1-409-193-00	COIL 3.58MHZ TRAP
T104	1-404-081-00	TRANSFOMER, DELAY ADJUST
T201	1-404-146-00	TRANSFORMER
T202	1-408-532-00	COIL, VARIABLE
T203	1-408-532-00	COIL, VARIABLE
T204	1-408-513-00	COIL (VARIABLE)

THERMISTOR

TH101	1-800-070-XX	THERMISTOR TH-4700
TH201	1-800-626-00	THERMISTOR

CRYSTAL

X101	1-567-505-11	OSCILLATOR, CRYSTAL
X102	1-567-504-11	OSCILLATOR, CRYSTAL

H X F Q

Ref.No.	Part No.	Description				Remark
	*1-612-248-11	H BOARD				
		*******				
	*4-363-319-01	HOLDER (4 GANG), LED				
	*4-370-916-01	HOLDER (5 GANG), LED				
		DIODE				
D301	8-719-114-34	DIODE SY432D				
D302	8-719-114-34	DIODE SY432D				
D303	8-719-114-34	DIODE SY432D				
D304	8-719-114-34	DIODE SY432D				
D305	8-719-114-34	DIODE SY432D				
D306	8-719-100-15	DIODE RD3.0E-B2				
D307	8-719-114-34	DIODE SY432D				
D308	8-719-114-34	DIODE SY432D				
D309	8-719-114-34	DIODE SY432D				
D310	8-719-114-34	DIODE SY432D				
		TRANSISTOR				
Q301	8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R301	1-215-436-00	CARBON	4.3K	5%	1/6W	
R302	1-215-458-00	CARBON	36K	5%	1/6W	
R303	1-215-442-00	CARBON	7.5K	5%	1/6W	
R304	1-249-429-11	CARBON	10K	5%	1/6W	
R305	1-249-417-11	CARBON	1K	5%	1/6W	
R306	1-249-417-11	CARBON	1K	5%	1/6W	
R307	1-249-417-11	CARBON	1K	5%	1/6W	
R308	1-249-435-11	CARBON	33K	5%	1/6W	
R309	1-249-419-11	CARBON	1.5K	5%	1/6W	
		VARIABLE RESISTOR				
RV301	1-228-938-00	RES, VAR, CARBON 20K				
RV302	1-228-936-00	RES, VAR, CARBON 10K				
RV303	1-228-938-00	RES, VAR, CARBON 20K				
RV304	1-228-938-00	RES, VAR, CARBON 20K				
RV305	1-228-937-00	RES, VAR, CARBON 20K				
RV306	1-228-937-00	RES, VAR, CARBON 20K				
RV307	1-228-938-00	RES, VAR, CARBON 20K				
		SWITCH				
S301	1-554-405-00	SWITCH, PUSH (5 KEY)				
S302	1-554-118-00	SWITCH, PUSH (1 KEY)				
S303	1-554-118-00	SWITCH, PUSH (1 KEY)				
S304	1-554-118-00	SWITCH, PUSH (1 KEY)				
S305	1-554-118-00	SWITCH, PUSH (1 KEY)				
**********						
	*1-612-249-11	X BOARD				
		*******				
	*4-345-701-00	HOLDER, LED				

Ref.No.	Part No.	Description				Remark
		DIODE				
D311	8-719-102-34	DIODE SG232D				
**********						
	*1-612-243-11	F BOARD				
		*******				
		CAPACITOR				
C681	1-136-346-11	MYLAR	0.22MF	20%	300V	
C682	1-136-346-11	MYLAR	0.22MF	20%	300V	
C683	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C684	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C685	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C686	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C687	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C688	1-161-738-00	CERAMIC	0.0047MF	20%	400V	
C689	1-125-287-00	ELECT(BLOCK)	430MF		400V	
C691	1-102-085-00	CERAMIC	0.0047MF		500V	
		DIODE				
D681	8-719-911-55	DIODE U05G				
		CONNECTOR				
F1	*1-506-348-XX	6P PLUG				
F2	*1-508-765-00	3P PLUG (M)				
F3	*1-508-765-00	3P PLUG (M)				
		FUSE				
F601 ⚠	1-532-237-11	FUSE, TIME-LAG 3.15A/250V				
	1-533-087-00	HOLDER, FUSE; F601				
		RESISTOR				
R681	1-214-947-00	METAL	2.7M	1%	1/2W	
R682	1-205-716-00	CEMENTED	100	5%	10W	
		TRANSFORMER				
T651	1-421-352-00	TRANSFORMER, FERRITE				
T652	1-421-352-00	TRANSFORMER, FERRITE				
		THERMISTOR				
TH601	1-800-820-00	THERMISTOR, POWER				
THP601	1-806-387-00	THERMISTOR (POSITIVE)				
**********						
	*A-1275-050-A	Q BOARD, COMPLETE				
		**********				
	1-536-843-11	TERMINAL BOARD, INPUT/OUTPUT(B)				
	4-603-275-00	LOCK, SCREW				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Q

Ref.No.	Part No.	Description			Remark
		CAPACITOR			
C402	1-123-356-00	ELECT	10MF	20%	25V
C403	1-102-953-00	CERAMIC	18PF	5%	50V
C405	1-123-380-00	ELECT	1MF	20%	50V
C407	1-123-356-00	ELECT	10MF	20%	25V
C408	1-102-953-00	CERAMIC	18PF	5%	50V
C410	1-123-380-00	ELECT	1MF	20%	50V
C412	1-123-356-00	ELECT	10MF	20%	25V
C413	1-102-953-00	CERAMIC	18PF	5%	50V
C415	1-123-380-00	ELECT	1MF	20%	50V
C417	1-123-332-00	ELECT	47MF	20%	25V
C419	1-106-383-00	MYLAR	0.047MF	10%	100V
C420	1-123-380-00	ELECT	1MF	20%	50V
C422	1-106-383-00	MYLAR	0.047MF	10%	100V
C423	1-123-380-00	ELECT	1MF	20%	50V
C424	1-123-332-00	ELECT	47MF	20%	25V
C426	1-123-234-00	ELECT	10MF	20%	50V
C428	1-123-234-00	ELECT	10MF	20%	50V
C430	1-123-234-00	ELECT	10MF	20%	50V
C432	1-123-332-00	ELECT	47MF	20%	25V
C433	1-123-356-00	ELECT	10MF	20%	25V
C434	1-102-773-00	CERAMIC	330PF	5%	50V
C435	1-123-332-00	ELECT	47MF	20%	25V
C436	1-101-006-00	CERAMIC	0.047MF		50V
C437	1-123-234-00	ELECT	10MF	20%	50V
C438	1-123-369-00	ELECT	4.7MF	20%	25V
C441	1-101-006-00	CERAMIC	0.047MF		50V
C443	1-106-383-00	MYLAR	0.047MF	10%	100V
C444	1-106-367-00	MYLAR	0.01MF	10%	100V
C446	1-123-380-00	ELECT	1MF	20%	50V
C447	1-123-380-00	ELECT	1MF	20%	50V
C448	1-123-380-00	ELECT	1MF	20%	50V
C452	1-123-382-00	ELECT	3.3MF	20%	50V
C453	1-123-228-00	ELECT	1MF	20%	50V
C455	1-101-006-00	CERAMIC	0.047MF		50V
C457	1-102-773-00	CERAMIC	330PF	5%	50V
C459	1-102-773-00	CERAMIC	330PF	5%	50V
C461	1-102-773-00	CERAMIC	330PF	5%	50V
C463	1-123-356-00	ELECT	10MF	20%	25V
C464	1-123-332-00	ELECT	47MF	20%	25V
C466	1-123-332-00	ELECT	47MF	20%	25V
C467	1-101-006-00	CERAMIC	0.047MF		50V
C468	1-101-006-00	CERAMIC	0.047MF		50V
C469	1-106-367-00	MYLAR	0.01MF	10%	100V
C489	1-123-332-00	ELECT	47MF	20%	25V
C490	1-123-332-00	ELECT	47MF	20%	25V
C491	1-123-332-00	ELECT	47MF	20%	25V
C492	1-123-332-00	ELECT	47MF	20%	25V
C493	1-102-766-00	CERAMIC	150PF	5%	50V
C494	1-106-367-00	MYLAR	0.01MF	10%	100V
C495	1-101-006-00	CERAMIC	0.047MF		50V
C497	1-123-356-00	ELECT	10MF	20%	25V

Ref.No.	Part No.	Description	Remark
		CONNECTOR	
CN407	*1-562-243-00	CONNECTOR 25P	
Q1	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
Q2	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
Q3	*1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P	
Q4	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
Q5	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
Q7	*1-560-128-00	PLUG, CONNECTOR (2.5MM PITCH)	
		DIODE	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-100-38	DIODE RD6.2E-B2	
D405	8-719-100-38	DIODE RD6.2E-B2	
D406	8-719-100-38	DIODE RD6.2E-B2	
D407	8-719-100-38	DIODE RD6.2E-B2	
D408	8-719-911-19	DIODE 1SS119	
D409	8-719-911-19	DIODE 1SS119	
D410	8-719-911-19	DIODE 1SS119	
D411	8-719-911-19	DIODE 1SS119	
D412	8-719-911-19	DIODE 1SS119	
D414	8-719-911-19	DIODE 1SS119	
D415	8-719-911-19	DIODE 1SS119	
D416	8-719-911-19	DIODE 1SS119	
D418	8-719-100-38	DIODE RD6.2E-B2	
D419	8-719-100-38	DIODE RD6.2E-B2	
D420	8-719-911-19	DIODE 1SS119	
D422	8-719-100-38	DIODE RD6.2E-B2	
D423	8-719-100-23	DIODE RD4.3E-B2	
D424	8-719-911-19	DIODE 1SS119	
D425	8-719-100-38	DIODE RD6.2E-B2	
D426	8-719-100-38	DIODE RD6.2E-B2	
D427	8-719-100-38	DIODE RD6.2E-B2	
D428	8-719-100-38	DIODE RD6.2E-B2	
D435	8-719-911-19	DIODE 1SS119	
D436	8-719-911-19	DIODE 1SS119	
D437	8-719-911-19	DIODE 1SS119	
		FUSE	
F402 ⚠	1-532-078-11	FUSE, TIME-LAG 1A/250V	
	1-533-087-00	HOLDER, FUSE; F402	
F404 ⚠	1-532-279-11	FUSE, TIME-LAG 0.5A/250V	
	1-533-087-00	HOLDER, FUSE; F404	
		IC	
IC401	8-752-201-90	IC CX22019	
IC402	8-759-900-09	IC SN74LS09N	
IC403	8-759-901-36	IC SN74LS136N	
IC404	8-759-900-08	IC SN74LS08N	
IC405	8-759-900-08	IC SN74LS08N	
IC406	8-759-900-04	IC SN74LS04N	

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Ref.No.	Part No.	Description	Remark
IC407	8-759-900-00	IC SN74LS00N	
IC408	8-759-900-20	IC SN74LS20N	
IC409	8-759-901-38	IC SN74LS138N	
REG401	8-759-171-05	IC UPC7805H	
REG402	8-759-700-06	IC NJM7812B	
		COIL	
L401	1-408-412-00	MICRO INDUCTOR 18UH	
L402	1-408-412-00	MICRO INDUCTOR 18UH	
L403	1-408-412-00	MICRO INDUCTOR 18UH	
L407	1-408-163-00	MICRO INDUCTOR 5.6MMH	
		TRANSISTOR	
Q401	8-729-117-54	TRANSISTOR 2SA1175	
Q402	8-729-178-54	TRANSISTOR 2SC2785	
Q403	8-729-117-54	TRANSISTOR 2SA1175	
Q404	8-729-178-54	TRANSISTOR 2SC2785	
Q405	8-729-117-54	TRANSISTOR 2SA1175	
Q406	8-729-178-54	TRANSISTOR 2SC2785	
Q407	8-729-117-54	TRANSISTOR 2SA1175	
Q408	8-729-117-54	TRANSISTOR 2SA1175	
Q409	8-729-178-54	TRANSISTOR 2SC2785	
Q410	8-729-117-54	TRANSISTOR 2SA1175	
Q411	8-729-178-54	TRANSISTOR 2SC2785	
Q412	8-729-178-54	TRANSISTOR 2SC2785	
Q413	8-729-178-54	TRANSISTOR 2SC2785	
Q414	8-729-117-54	TRANSISTOR 2SA1175	
Q415	8-729-178-54	TRANSISTOR 2SC2785	
Q416	8-729-178-54	TRANSISTOR 2SC2785	
Q417	8-729-178-54	TRANSISTOR 2SC2785	
Q418	8-729-117-54	TRANSISTOR 2SA1175	
Q419	8-729-178-54	TRANSISTOR 2SC2785	
Q420	8-729-178-54	TRANSISTOR 2SC2785	
Q421	8-729-178-54	TRANSISTOR 2SC2785	
Q422	8-729-178-54	TRANSISTOR 2SC2785	
Q423	8-729-178-54	TRANSISTOR 2SC2785	
Q424	8-729-117-54	TRANSISTOR 2SA1175	
Q425	8-729-178-54	TRANSISTOR 2SC2785	
Q426	8-729-178-54	TRANSISTOR 2SC2785	
Q429	8-729-178-54	TRANSISTOR 2SC2785	
Q430	8-729-117-54	TRANSISTOR 2SA1175	
Q431	8-729-178-54	TRANSISTOR 2SC2785	
Q433	8-729-117-54	TRANSISTOR 2SA1175	
Q434	8-729-117-54	TRANSISTOR 2SA1175	
Q435	8-729-117-54	TRANSISTOR 2SA1175	
Q442	8-729-178-54	TRANSISTOR 2SC2785	
Q443	8-729-178-54	TRANSISTOR 2SC2785	
Q444	8-729-178-54	TRANSISTOR 2SC2785	
Q445	8-729-117-54	TRANSISTOR 2SA1175	
Q446	8-729-117-54	TRANSISTOR 2SA1175	
Q447	8-729-178-54	TRANSISTOR 2SC2785	
Q448	8-729-117-54	TRANSISTOR 2SA1175	
Q449	8-729-178-54	TRANSISTOR 2SC2785	
Q450	8-729-117-54	TRANSISTOR 2SA1175	
Q451	8-729-178-54	TRANSISTOR 2SC2785	
Q452	8-729-117-54	TRANSISTOR 2SA1175	
Q453	8-729-178-54	TRANSISTOR 2SC2785	
Q454	8-729-117-54	TRANSISTOR 2SA1175	
Q455	8-729-178-54	TRANSISTOR 2SC2785	
Q456	8-729-178-54	TRANSISTOR 2SC2785	
Q457	8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R351	1-249-429-11	CARBON 10K 5% 1/6W	
R352	1-249-409-11	CARBON 220 5% 1/6W	
R353	1-249-429-11	CARBON 10K 5% 1/6W	
R354	1-249-409-11	CARBON 220 5% 1/6W	
R355	1-249-405-11	CARBON 100 5% 1/6W	
R356	1-247-711-11	CARBON 680 5% 1/4W	
R357	1-247-711-11	CARBON 680 5% 1/4W	
R358	1-249-415-11	CARBON 680 5% 1/6W	
R359	1-249-415-11	CARBON 680 5% 1/6W	
R361	1-247-711-11	CARBON 680 5% 1/4W	
R362	1-247-711-11	CARBON 680 5% 1/4W	
R364	1-249-415-11	CARBON 680 5% 1/6W	
R365	1-247-711-11	CARBON 680 5% 1/4W	
R366	1-246-457-00	CARBON 220 5% 1/4W	
R367	1-246-457-00	CARBON 220 5% 1/4W	
R368	1-249-429-11	CARBON 10K 5% 1/6W	
R369	1-249-409-11	CARBON 220 5% 1/6W	
R370	1-249-409-11	CARBON 220 5% 1/6W	
R371	1-249-423-11	CARBON 3.3K 5% 1/6W	
R372	1-247-719-11	CARBON 3.3K 5% 1/4W	
R373	1-246-537-00	CARBON 470K 5% 1/4W	
R374	1-249-437-11	CARBON 47K 5% 1/6W	
R377	1-249-424-11	CARBON 3.9K 5% 1/6W	
R378	1-249-429-11	CARBON 10K 5% 1/6W	
R379	1-247-711-11	CARBON 680 5% 1/4W	
R401	1-247-104-00	CARBON 75 5% 1/4W	
R402	1-247-713-11	CARBON 1K 5% 1/4W	
R403	1-215-468-00	CARBON 91K 5% 1/6W	
R404	1-249-417-11	CARBON 1K 5% 1/6W	
R405	1-249-434-11	CARBON 27K 5% 1/6W	
R406	1-249-428-11	CARBON 8.2K 5% 1/6W	
R407	1-249-417-11	CARBON 1K 5% 1/6W	
R408	1-247-104-00	CARBON 75 5% 1/4W	
R409	1-247-713-11	CARBON 1K 5% 1/4W	
R410	1-215-468-00	CARBON 91K 5% 1/6W	
R411	1-249-417-11	CARBON 1K 5% 1/6W	
R412	1-249-434-11	CARBON 27K 5% 1/6W	
R413	1-249-428-11	CARBON 8.2K 5% 1/6W	
R414	1-249-417-11	CARBON 1K 5% 1/6W	
R415	1-247-104-00	CARBON 75 5% 1/4W	
R416	1-247-713-11	CARBON 1K 5% 1/4W	
R417	1-215-468-00	CARBON [illegible] 5% 1/6W	
R418	1-249-417-11	CARBON [illegible] 5% 1/6W	

Q

Ref.No.	Part No.	Description				Remark
R419	1-249-434-11	CARBON	27K	5%	1/6W	
R420	1-249-428-11	CARBON	8.2K	5%	1/6W	
R421	1-249-417-11	CARBON	1K	5%	1/6W	
R422	1-249-466-11	CARBON	56K	5%	1/4W	
R423	1-247-885-00	CARBON	180K	5%	1/6W	
R424	1-249-440-11	CARBON	82K	5%	1/6W	
R425	1-249-437-11	CARBON	47K	5%	1/6W	
R426	1-249-427-11	CARBON	6.8K	5%	1/6W	
R427	1-249-425-11	CARBON	4.7K	5%	1/6W	
R428	1-249-466-11	CARBON	56K	5%	1/4W	
R429	1-247-885-00	CARBON	180K	5%	1/6W	
R430	1-249-440-11	CARBON	82K	5%	1/6W	
R431	1-249-437-11	CARBON	47K	5%	1/6W	
R432	1-249-427-11	CARBON	6.8K	5%	1/6W	
R433	1-249-425-11	CARBON	4.7K	5%	1/6W	
R434	1-249-405-11	CARBON	100	5%	1/6W	
R435	1-249-441-11	CARBON	100K	5%	1/6W	
R436	1-246-445-00	CARBON	68	5%	1/4W	
R437	1-247-713-11	CARBON	1K	5%	1/4W	
R438	1-249-421-11	CARBON	2.2K	5%	1/6W	
R439	1-247-725-11	CARBON	10K	5%	1/4W	
R440	1-215-468-00	CARBON	91K	5%	1/6W	
R442	1-249-434-11	CARBON	27K	5%	1/6W	
R443	1-249-428-11	CARBON	8.2K	5%	1/6W	
R444	1-246-445-00	CARBON	68	5%	1/4W	
R445	1-247-713-11	CARBON	1K	5%	1/4W	
R446	1-249-421-11	CARBON	2.2K	5%	1/6W	
R447	1-247-725-11	CARBON	10K	5%	1/4W	
R448	1-215-468-00	CARBON	91K	5%	1/6W	
R450	1-249-434-11	CARBON	27K	5%	1/6W	
R451	1-249-428-11	CARBON	8.2K	5%	1/6W	
R452	1-246-445-00	CARBON	68	5%	1/4W	
R453	1-247-713-11	CARBON	1K	5%	1/4W	
R454	1-249-421-11	CARBON	2.2K	5%	1/6W	
R455	1-247-725-11	CARBON	10K	5%	1/4W	
R456	1-215-468-00	CARBON	91K	5%	1/6W	
R458	1-249-434-11	CARBON	27K	5%	1/6W	
R459	1-249-428-11	CARBON	8.2K	5%	1/6W	
R460	1-247-700-11	CARBON	100	5%	1/4W	
R461	1-249-421-11	CARBON	2.2K	5%	1/6W	
R462	1-249-417-11	CARBON	1K	5%	1/6W	
R463	1-249-424-11	CARBON	3.9K	5%	1/6W	
R465	1-249-419-11	CARBON	1.5K	5%	1/6W	
R466	1-249-411-11	CARBON	330	5%	1/6W	
R467	1-249-416-11	CARBON	820	5%	1/6W	
R468	1-249-419-11	CARBON	1.5K	5%	1/6W	
R469	1-249-411-11	CARBON	330	5%	1/6W	
R470	1-249-416-11	CARBON	820	5%	1/6W	
R471	1-249-419-11	CARBON	1.5K	5%	1/6W	
R472	1-249-411-11	CARBON	330	5%	1/6W	
R473	1-249-416-11	CARBON	820	5%	1/6W	
R474	1-249-425-11	CARBON	4.7K	5%	1/6W	
R475	1-249-428-11	CARBON	8.2K	5%	1/6W	
R476	1-249-417-11	CARBON	1K	5%	1/6W	
R477	1-249-425-11	CARBON	4.7K	5%	1/6W	
R478	1-249-425-11	CARBON	4.7K	5%	1/6W	
R479	1-249-425-11	CARBON	4.7K	5%	1/6W	
R480	1-246-445-00	CARBON	68	5%	1/4W	
R481	1-247-717-11	CARBON	2.2K	5%	1/4W	
R482	1-249-421-11	CARBON	2.2K	5%	1/6W	
R483	1-249-405-11	CARBON	100	5%	1/6W	
R484	1-249-429-11	CARBON	10K	5%	1/6W	
R485	1-215-468-00	CARBON	91K	5%	1/6W	
R486	1-249-434-11	CARBON	27K	5%	1/6W	
R487	1-249-428-11	CARBON	8.2K	5%	1/6W	
R488	1-246-457-00	CARBON	220	5%	1/4W	
R489	1-247-721-11	CARBON	4.7K	5%	1/4W	
R490	1-249-419-11	CARBON	1.5K	5%	1/6W	
R491	1-249-421-11	CARBON	2.2K	5%	1/6W	
R492	1-249-416-11	CARBON	820	5%	1/6W	
R493	1-249-411-11	CARBON	330	5%	1/6W	
R494	1-249-425-11	CARBON	4.7K	5%	1/6W	
R495	1-249-433-11	CARBON	22K	5%	1/6W	
R496	1-249-437-11	CARBON	47K	5%	1/6W	
R497	1-249-429-11	CARBON	10K	5%	1/6W	
R499	1-249-405-11	CARBON	100	5%	1/6W	
R1401	1-249-417-11	CARBON	1K	5%	1/6W	
R1402	1-249-417-11	CARBON	1K	5%	1/6W	
R1403	1-249-432-11	CARBON	18K	5%	1/6W	
R1404	1-249-424-11	CARBON	3.9K	5%	1/6W	
R1405	1-249-429-11	CARBON	10K	5%	1/6W	
R1406	1-249-417-11	CARBON	1K	5%	1/6W	
R1413	1-247-720-11	CARBON	3.9K	5%	1/4W	
R1414	1-247-708-11	CARBON	470	5%	1/4W	
R1415	1-247-722-11	CARBON	5.6K	5%	1/4W	
R1417	1-249-413-11	CARBON	470	5%	1/6W	
R1419	1-249-419-11	CARBON	1.5K	5%	1/6W	
R1420	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1421	1-249-417-11	CARBON	1K	5%	1/6W	
R1423	1-249-415-11	CARBON	680	5%	1/6W	
R1432	1-249-429-11	CARBON	10K	5%	1/6W	
R1433	1-249-423-11	CARBON	3.3K	5%	1/6W	
R1434	1-215-438-00	CARBON	5.1K	5%	1/6W	
R1435	1-249-418-11	CARBON	1.2K	5%	1/6W	
R1436	1-249-436-11	CARBON	39K	5%	1/6W	
R1437	1-249-429-11	CARBON	10K	5%	1/6W	
R1438	1-249-426-11	CARBON	5.6K	5%	1/6W	
R1439	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1441	1-249-433-11	CARBON	22K	5%	1/6W	
R1442	1-215-491-00	CARBON	820K	5%	1/6W	
R1443	1-215-491-00	CARBON	820K	5%	1/6W	
R1444	1-215-491-00	CARBON	820K	5%	1/6W	
R1445	1-249-435-11	CARBON	33K	5%	1/6W	
R1446	1-249-435-11	CARBON	33K	5%	1/6W	
R1447	1-246-527-00	CARBON	180K	5%	1/4W	
R1448	1-249-426-11	CARBON	5.6K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R1449	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1451	1-249-417-11	CARBON	1K	5%	1/6W	
R1452	1-249-423-11	CARBON	3.3K	5%	1/6W	
R1453	1-249-417-11	CARBON	1K	5%	1/6W	
R1454	1-249-423-11	CARBON	3.3K	5%	1/6W	
R1455	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1456	1-249-413-11	CARBON	470	5%	1/6W	
R1457	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1458	1-249-401-11	CARBON	47	5%	1/6W	
R1459	1-249-414-11	CARBON	560	5%	1/6W	
R1460	1-249-397-11	CARBON	22	5%	1/6W	
R1461	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1462	1-249-413-11	CARBON	470	5%	1/6W	
R1463	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1464	1-249-401-11	CARBON	47	5%	1/6W	
R1465	1-249-414-11	CARBON	560	5%	1/6W	
R1466	1-249-397-11	CARBON	22	5%	1/6W	
R1467	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1468	1-249-413-11	CARBON	470	5%	1/6W	
R1469	1-249-421-11	CARBON	2.2K	5%	1/6W	
R1470	1-249-401-11	CARBON	47	5%	1/6W	
R1471	1-249-414-11	CARBON	560	5%	1/6W	
R1472	1-249-397-11	CARBON	22	5%	1/6W	
R1473	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1474	1-249-427-11	CARBON	6.8K	5%	1/6W	
R1475	1-249-429-11	CARBON	10K	5%	1/6W	
R1476	1-249-409-11	CARBON	220	5%	1/6W	
R1477	1-249-409-11	CARBON	220	5%	1/6W	
R1478	1-249-409-11	CARBON	220	5%	1/6W	
R1479	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1480	1-249-425-11	CARBON	4.7K	5%	1/6W	
R1481	1-249-417-11	CARBON	1K	5%	1/6W	
R1482	1-249-429-11	CARBON	10K	5%	1/6W	
R1483	1-249-429-11	CARBON	10K	5%	1/6W	
R1484	1-247-725-11	CARBON	10K	5%	1/4W	
R1485	1-246-457-00	CARBON	220	5%	1/4W	
R1486	1-247-725-11	CARBON	10K	5%	1/4W	
R1487	1-246-457-00	CARBON	220	5%	1/4W	
R1488	1-247-725-11	CARBON	10K	5%	1/4W	
R1489	1-246-457-00	CARBON	220	5%	1/4W	
R1490	1-247-725-11	CARBON	10K	5%	1/4W	
R1492	1-246-457-00	CARBON	220	5%	1/4W	

VARIABLE RESISTOR

RV401	1-226-853-00	RES, ADJ, CARBON 47K	
RV402	1-226-852-00	RES, ADJ, CARBON 22K	
RV403	1-226-852-00	RES, ADJ, CARBON 22K	
RV404	1-226-852-00	RES, ADJ, CARBON 22K	
RV405	1-226-852-00	RES, ADJ, CARBON 22K	

SWITCH

S401	1-553-725-00	SWITCH, SLIDE	
S402	1-553-725-00	SWITCH, SLIDE	
S403	1-553-725-00	SWITCH, SLIDE	

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*A-1330-507-A C1 BOARD, COMPLETE

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1-526-616-00 SOCKET, CRT

CAPACITOR

C701	1-123-356-00	ELECT	10MF	20%	25V
C702	1-102-002-00	CERAMIC	680PF	10%	500V
C703	1-123-356-00	ELECT	10MF	20%	25V
C704	1-102-002-00	CERAMIC	680PF	10%	500V
C705	1-123-356-00	ELECT	10MF	20%	25V
C706	1-102-002-00	CERAMIC	680PF	10%	500V
C707	1-123-356-00	ELECT	10MF	20%	25V
C708	1-121-759-00	ELECT	4.7MF		250V
C709	1-102-038-00	CERAMIC	0.001MF		500V
C710	1-106-387-00	MYLAR	0.1MF	10%	200V
C711	1-123-356-00	ELECT	10MF	20%	50V
C712	1-129-737-00	FILM	0.047MF	20%	630V
C713	1-102-249-00	CERAMIC	680PF	20%	2KV
C714	1-130-491-00	MYLAR	0.047MF	5%	50V

DIODE

D701	8-719-300-76	DIODE RH1A
D702	8-719-300-76	DIODE RH1A
D703	8-719-300-76	DIODE RH1A

COIL

L701	1-408-418-00	MICRO INDUCTOR 56UH
L702	1-408-418-00	MICRO INDUCTOR 56UH
L703	1-408-418-00	MICRO INDUCTOR 56UH
L704	1-408-417-00	MICRO INDUCTOR 47UH
L705	1-407-780-00	COIL, SPOOK CHOKE
L706	1-408-417-00	MICRO INDUCTOR 47UH

NEON LAMP

NL701	1-519-108-XX	LAMP, NEON ASSY

TRANSISTOR

Q701	8-729-178-54	TRANSISTOR 2SC2785
Q702	8-729-326-11	TRANSISTOR 2SC2611
Q703	8-729-178-54	TRANSISTOR 2SC2785
Q704	8-729-326-11	TRANSISTOR 2SC2611
Q705	8-729-178-54	TRANSISTOR 2SC2785
Q706	8-729-326-11	TRANSISTOR 2SC2611

RESISTOR

R707	1-249-413-11	CARBON	470	5%	1/6W
R708	1-247-793-00	CARBON	27	5%	1/6W
R709	1-249-421-11	CARBON	2.2K	5%	1/6W

C1 C2 D

Ref.No.	Part No.	Description				Remark
R710	1-249-409-11	CARBON	220	5%	1/6W	
R711	1-249-397-11	CARBON	22	5%	1/6W	
R712	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R713	1-249-413-11	CARBON	470	5%	1/6W	
R714	1-247-793-00	CARBON	27	5%	1/6W	
R715	1-249-421-11	CARBON	2.2K	5%	1/6W	
R716	1-249-409-11	CARBON	220	5%	1/6W	
R717	1-249-397-11	CARBON	22	5%	1/6W	
R718	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R719	1-249-413-11	CARBON	470	5%	1/6W	
R720	1-247-793-00	CARBON	27	5%	1/6W	
R721	1-249-421-11	CARBON	2.2K	5%	1/6W	
R722	1-249-409-11	CARBON	220	5%	1/6W	
R723	1-249-397-11	CARBON	22	5%	1/6W	
R724	1-206-749-00	METAL OXIDE	10K	5%	3W	F
R725	1-202-824-00	SOLID	3.3K		1/2W	
R726	1-202-824-00	SOLID	3.3K		1/2W	
R727	1-202-824-00	SOLID	3.3K		1/2W	
R728	1-202-549-00	SOLID	100	10%	1/2W	
R729	1-202-837-00	SOLID	82K		1/2W	
R730	1-202-846-00	SOLID	470K		1/2W	
R731	1-202-814-11	SOLID	33K		1/2W	
R732	1-202-815-11	SOLID	47K		1/2W	
R733	1-202-846-00	SOLID	470K		1/2W	
R734	1-202-719-00	SOLID	1M	10%	1/2W	
R735	1-202-842-11	SOLID	220K		1/2W	
R736	1-247-694-11	CARBON	33	5%	1/4W	
R737	1-246-525-00	CARBON	150K	5%	1/4W	
R738	1-249-399-11	CARBON	33	5%	1/6W	
R739	1-202-844-00	SOLID	330K		1/2W	

VARIABLE RESISTOR

RV713	1-226-114-00	RES, ADJ, METAL GLAZE	2.2M
RV714	1-226-063-00	RES, ADJ, CARBON	2.2M

SPARK GAP

SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP
SG704	1-519-063-XX	DISCHARGING GAP
SG705	1-519-063-XX	DISCHARGING GAP

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*1-612-246-11 C2 BOARD
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*1-560-278-00 PLUG, CONNECTOR 8P

RESISTOR

R701	1-249-421-11	CARBON	2.2K	5%	1/6W
R702	1-247-826-00	CARBON	620	5%	1/6W
R703	1-249-421-11	CARBON	2.2K	5%	1/6W
R704	1-249-414-11	CARBON	560	5%	1/6W
R705	1-249-421-11	CARBON	2.2K	5%	1/6W
R706	1-249-413-11	CARBON	470	5%	1/6W

VARIABLE RESISTOR

RV701	1-226-819-00	RES, ADJ, CARBON	1K
RV702	1-226-819-00	RES, ADJ, CARBON	1K
RV703	1-226-921-00	RES, ADJ, CARBON	4.7K
RV704	1-226-921-00	RES, ADJ, CARBON	4.7K
RV705	1-226-819-00	RES, ADJ, CARBON	1K
RV706	1-226-819-00	RES, ADJ, CARBON	1K
RV707	1-226-921-00	RES, ADJ, CARBON	4.7K
RV708	1-226-921-00	RES, ADJ, CARBON	4.7K
RV709	1-226-819-00	RES, ADJ, CARBON	1K
RV710	1-226-819-00	RES, ADJ, CARBON	1K
RV711	1-226-921-00	RES, ADJ, CARBON	4.7K
RV712	1-226-921-00	RES, ADJ, CARBON	4.7K

SWITCH

S701	1-554-974-11	SWITCH, SLIDE

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*A-1345-455-A D BOARD, COMPLETE
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4-363-414-00 SPACER, MICA
*4-367-226-00 HOLDER, H OUT
7-685-647-79 SCREW, TAPPING

CAPACITOR

C501	1-123-381-00	ELECT	2.2MF	20%	50V
C502	1-123-369-00	ELECT	4.7MF	20%	50V
C503	1-106-343-00	MYLAR	0.001MF	5%	50V
C504	1-106-347-00	MYLAR	0.0015MF	5%	50V
C505	1-102-115-00	CERAMIC	560PF	10%	50V
C506	1-102-973-00	CERAMIC	100PF	5%	50V
C507	1-106-381-12	MYLAR	0.039MF	10%	100V
C508	1-123-380-00	ELECT	1MF	20%	50V
C509	1-106-367-00	MYLAR	0.01MF	10%	100V
C510	1-123-382-00	ELECT	3.3MF	20%	50V
C511	1-123-379-00	ELECT	0.47MF	20%	50V
C512	1-131-373-00	TANTALUM	22MF	20%	16V
C513	1-136-173-00	FILM	0.47MF	5%	50V
C514	1-131-369-00	TANTALUM	4.7MF	20%	16V
C515	1-123-356-00	ELECT	10MF	20%	25V
C516	1-106-375-12	MYLAR	0.022MF	10%	100V
C517	1-130-491-00	MYLAR	0.047MF	5%	50V
C518	1-123-321-00	ELECT	220MF	20%	16V
C519	1-102-989-00	CERAMIC	68PF	5%	500V
C520	1-106-375-12	MYLAR	0.022MF	10%	100V
C521	1-106-375-12	MYLAR	0.022MF	10%	100V
C523	1-106-375-12	MYLAR	0.022MF	10%	100V
C524	1-106-351-00	MYLAR	0.0022MF	5%	100V
C525	1-129-794-00	FILM	0.0033MF	5%	100V

Ref.No.	Part No.	Description			Remark
C526	1-123-381-00	ELECT	2.2MF	20%	50V
C527	1-123-381-00	ELECT	2.2MF	20%	50V
C528	1-101-006-00	CERAMIC	0.047MF		50V
C531	1-123-381-00	ELECT	2.2MF	20%	50V
C532	1-123-334-00	ELECT	220MF	20%	25V
C533	1-123-335-00	ELECT	330MF	20%	25V
C534	1-123-379-00	ELECT	0.47MF	20%	50V
C535	1-106-383-00	MYLAR	0.047MF	10%	200V
C536	1-101-810-00	CERAMIC	100PF	5%	500V
C537	1-106-343-00	MYLAR	0.001MF	10%	100V
C538	1-161-961-00	CERAMIC	0.0022MF	10%	3KV
C539	1-106-216-00	MYLAR	0.068MF	10%	100V
C540	1-136-139-00	FILM	0.012MF	3%	2KV
C541	1-129-745-00	FILM	0.033MF	10%	400V
C542	1-102-223-00	CERAMIC	0.0047MF	10%	2KV
C543	1-123-254-00	ELECT	10MF		250V
C544	1-102-038-00	CERAMIC	0.001MF		500V
C545	1-123-333-00	ELECT	100MF	20%	25V
C546	1-102-038-00	CERAMIC	0.001MF		500V
C547	1-136-111-00	FILM	1MF	5%	200V
C548	1-106-387-00	MYLAR	0.1MF	10%	200V
C549	1-136-113-00	FILM	2MF	5%	200V
C550	1-129-943-00	FILM	0.68MF	10%	400V
C551A	1-123-332-00	ELECT	47MF	20%	16V
C552A	1-123-332-00	ELECT	47MF	20%	16V
C553	1-106-367-00	MYLAR	0.01MF	10%	100V
C554	1-123-333-00	ELECT	100MF	20%	25V
C555	1-102-228-00	CERAMIC	470PF	10%	500V
C556	1-123-360-00	ELECT	100MF	20%	50V
C557	1-106-375-12	MYLAR	0.022MF	10%	100V
C559	1-123-330-00	ELECT	22MF	20%	16V
C560	1-106-379-12	MYLAR	0.033MF	10%	100V
C562	1-123-332-00	ELECT	47MF	20%	16V
C563	1-123-332-00	ELECT	47MF	20%	16V
C566	1-106-343-00	MYLAR	0.001MF	5%	50V
C567	1-101-006-00	CERAMIC	0.047MF		50V
C568	1-123-321-00	ELECT	220MF	20%	16V
C569	1-106-367-00	MYLAR	0.01MF	10%	100V
C570	1-106-367-00	MYLAR	0.01MF	10%	100V
C571	1-101-006-00	CERAMIC	0.047MF		50V
C572	1-101-006-00	CERAMIC	0.047MF		50V
C573A	1-123-369-00	ELECT	4.7MF	20%	50V
C573B	1-123-369-00	ELECT	4.7MF	20%	50V
C575	1-123-024-00	ELECT	33MF		160V
C597	1-102-074-00	CERAMIC	0.001MF	10%	50V
C598	1-102-074-00	CERAMIC	0.001MF	10%	50V
C599	1-126-234-11	ELECT	2200MF	20%	16V
C801	1-123-369-00	ELECT	4.7MF	20%	50V
C802	1-123-369-00	ELECT	4.7MF	20%	50V
C803	1-130-489-00	MYLAR	0.033MF	5%	50V
C804	1-124-192-00	ELECT	4.7MF	20%	50V
C805	1-106-357-00	MYLAR	0.0039MF	10%	100V
C806	1-123-380-00	ELECT	1MF	20%	50V
C807	1-123-332-00	ELECT	47MF	20%	16V
C808	1-123-228-00	ELECT	1MF	20%	50V
C809	1-123-333-00	ELECT	100MF	20%	16V
C810	1-123-336-00	ELECT	470MF	20%	25V
C811	1-101-006-00	CERAMIC	0.047MF		50V
C813	1-106-395-00	MYLAR	0.15MF	10%	200V
C815	1-123-356-00	ELECT	10MF	20%	16V
C899	1-101-006-00	CERAMIC	0.047MF		50V

CONNECTOR

D1	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D2	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D4	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D5	*1-508-767-00	5P PLUG
D6	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
D7	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D8	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
D9	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)

DIODE

D501	8-719-102-60	DIODE RD3.9E-N2
D502	8-719-911-19	DIODE 1SS119
D504	8-719-911-19	DIODE 1SS119
D509	8-719-305-15	DIODE GH3F
D510	8-719-928-08	DIODE ERD28-08S
D511	8-719-903-09	DIODE V30N
D512	8-719-918-77	DIODE V19G
D513	8-719-918-77	DIODE V19G
D514	8-719-911-55	DIODE U05G
D515	8-719-918-77	DIODE V19G
D516	8-719-911-19	DIODE 1SS119
D517A	8-719-911-55	DIODE U05G
D518A	8-719-911-55	DIODE U05G
D519	8-719-911-55	DIODE U05G
D520	8-719-911-19	DIODE 1SS119
D521	8-719-911-19	DIODE 1SS119
D524	8-719-911-19	DIODE 1SS119
D525	8-719-102-84	DIODE RD8.2E-N2
D526	8-719-911-19	DIODE 1SS119
D801	8-719-022-21	DIODE 1T-22A
D802	8-719-022-21	DIODE 1T-22A

IC

IC501	8-759-100-60	IC UPC1377C
IC502	8-759-979-16	IC CX7916
IC504	8-759-145-58	IC UPC4558C
IC505	8-759-105-82	IC UPC1378H-P
IC801	8-759-905-39	IC TDA1082
IC802	8-759-145-58	IC UPC4558C

D

Ref.No.	Part No.	Description				Remark
		COIL				
L501	1-408-242-00	MICRO INDUCTOR 10MMH				
L502	1-407-780-00	COIL, SPOOK CHOKE				
L503	1-407-365-00	COIL, CHOKE				
L504	1-459-390-00	COIL (WITH CORE)				
L505	1-421-368-00	COIL, VAR FERRITE (H.C)				
L506	1-408-239-00	MICRO INDUCTOR 4.7MMH				
L507	1-459-104-00	COIL, DUST CORE				
L509	1-421-329-00	COIL, CHOKE				
L801	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE				
L802	1-459-338-00	COIL, VAR, FERRITE (PAC)				
		TRANSISTOR				
Q501	8-729-384-46	TRANSISTOR 2SA844-C				
Q502	8-729-178-54	TRANSISTOR 2SC2785				
Q503	8-729-900-36	TRANSISTOR DTC124ES				
Q504	8-729-900-36	TRANSISTOR DTC124ES				
Q505	8-729-900-36	TRANSISTOR DTC124ES				
Q506	8-729-900-36	TRANSISTOR DTC124ES				
Q507	8-729-900-63	TRANSISTOR DTA124ES				
Q508	8-729-168-82	TRANSISTOR 2SC2688				
Q509	8-729-800-87	TRANSISTOR 2SD1398				
Q510	8-729-178-54	TRANSISTOR 2SC2785				
Q512	8-729-177-43	TRANSISTOR 2SD774				
Q801	8-729-313-42	TRANSISTOR 2SD1134				
Q802	8-729-178-54	TRANSISTOR 2SC2785				
Q803	8-729-178-54	TRANSISTOR 2SC2785				
Q804	8-729-117-54	TRANSISTOR 2SA1175				
Q805	8-729-178-54	TRANSISTOR 2SC2785				
Q806	8-729-178-54	TRANSISTOR 2SC2785				
Q850	8-729-384-46	TRANSISTOR 2SA844-C				
		RESISTOR				
R501	1-249-419-11	CARBON	1.5K	5%	1/6W	
R502	1-249-410-11	CARBON	270	5%	1/6W	
R503	1-249-413-11	CARBON	470	5%	1/6W	
R504	1-249-417-11	CARBON	1K	5%	1/6W	
R505	1-249-429-11	CARBON	10K	5%	1/6W	
R506	1-249-421-11	CARBON	2.2K	5%	1/6W	
R507	1-249-418-11	CARBON	1.2K	5%	1/6W	
R508	1-249-419-11	CARBON	1.5K	5%	1/6W	
R509	1-249-421-11	CARBON	2.2K	5%	1/6W	
R510	1-249-434-11	CARBON	27K	5%	1/6W	
R511	1-215-457-00	METAL	33K	1%	1/6W	
R512	1-249-440-11	CARBON	82K	5%	1/6W	
R513	1-249-429-11	CARBON	10K	5%	1/6W	
R514	1-214-783-00	METAL	180K	1%	1/4W	
R515	1-215-463-00	METAL	56K	1%	1/6W	
R518	1-215-478-00	METAL	240K	1%	1/6W	
R519	1-215-463-00	METAL	56K	1%	1/6W	
R520	1-249-411-11	CARBON	330	5%	1/6W	
R521	1-249-415-11	CARBON	680	5%	1/6W	
R522	1-249-415-11	CARBON	680	5%	1/6W	
R523	1-249-413-11	CARBON	470	5%	1/6W	
R524	1-249-426-11	CARBON	5.6K	5%	1/6W	
R525	1-249-419-11	CARBON	1.5K	5%	1/6W	
R526	1-249-427-11	CARBON	6.8K	5%	1/6W	
R527	1-249-430-11	CARBON	12K	5%	1/6W	
R528	1-249-425-11	CARBON	4.7K	5%	1/6W	
R529	1-215-484-00	METAL	430K	1%	1/6W	
R530	1-215-463-00	METAL	56K	1%	1/6W	
R531	1-249-419-11	CARBON	1.5K	5%	1/6W	
R532	1-246-992-00	CARBON	180	5%	1/8W	F
R533	1-249-427-11	CARBON	6.8K	5%	1/8W	
R534	1-249-419-11	CARBON	1.5K	5%	1/6W	
R535	1-215-456-00	METAL	30K	1%	1/6W	
R536	1-249-430-11	CARBON	12K	5%	1/6W	
R537	1-249-441-11	CARBON	100K	5%	1/6W	
R538	1-249-425-11	CARBON	4.7K	5%	1/6W	
R540	1-249-431-11	CARBON	15K	5%	1/6W	
R548	1-249-408-11	CARBON	180	5%	1/6W	
R549	1-246-991-00	CARBON	150	5%	1/8W	F
R550	1-249-429-11	CARBON	10K	5%	1/6W	
R551	1-249-406-11	CARBON	120	5%	1/6W	
R552	1-249-429-11	CARBON	10K	5%	1/6W	
R553	1-205-642-00	CEMENTED	3.3K	10%	5W	
R554	1-249-420-11	CARBON	1.8K	5%	1/8W	F
R555	1-249-417-11	CARBON	1K	5%	1/6W	
R556	1-247-636-00	CARBON	0.47	5%	1/8W	F
R557	1-247-636-00	CARBON	0.47	5%	1/8W	F
R558	1-217-407-00	FUSIBLE	470		1/4W	F
R559	1-246-979-00	CARBON	1.2	5%	1/8W	F
R560	1-202-597-00	SOLID	10K	10%	1/2W	
R561	1-249-468-11	CARBON	82K	5%	1/4W	
R562	1-249-468-11	CARBON	82K	5%	1/4W	
R563	1-213-141-00	METAL OXIDE	680	5%	1W	F
R564	1-215-862-11	METAL OXIDE	68	5%	1W	F
R565	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R566	1-215-479-00	CARBON	270K	5%	1/6W	
R567	1-215-493-00	CARBON	1M	5%	1/6W	
R568	1-213-136-00	METAL OXIDE	270	5%	1W	F
R569	1-213-138-00	METAL OXIDE	390	5%	1W	F
R570	1-247-743-11	CARBON	220	5%	1/2W	
R571	1-249-433-11	CARBON	22K	5%	1/6W	
R572	1-249-434-11	CARBON	27K	5%	1/6W	
R573	1-249-423-11	CARBON	3.3K	5%	1/6W	
R574	1-249-437-11	CARBON	47K	5%	1/6W	
R575	1-249-441-11	CARBON	100K	5%	1/6W	
R577	1-249-429-11	CARBON	10K	5%	1/6W	
R578	1-215-459-00	METAL	39K	1%	1/6W	
R579	1-215-475-00	METAL	180K	1%	1/6W	
R580	1-247-718-11	CARBON	2.7K	5%	1/4W	
R581	1-247-718-11	CARBON	2.7K	5%	1/4W	
R582	1-249-418-11	CARBON	1.2K	5%	1/6W	
R583	1-249-417-11	CARBON	1K	5%	1/6W	
R584	1-249-439-11	CARBON	68K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R585	1-249-438-11	CARBON	56K	5%	1/6W	
R586	1-215-493-00	METAL	1M	1%	1/6W	
R587	1-249-429-11	CARBON	10K	5%	1/6W	
R588	1-249-440-11	CARBON	82K	5%	1/6W	
R589	1-249-440-11	CARBON	82K	5%	1/6W	
R596	1-212-373-00	METAL OXIDE	12	5%	1W	F
R597	1-215-373-31	METAL	10	1%	1/6W	
R598	1-249-429-11	CARBON	10K	5%	1/6W	
R599	1-249-439-11	CARBON	68K	5%	1/6W	
R800	1-249-435-11	CARBON	33K	5%	1/6W	
R802	1-249-433-11	CARBON	22K	5%	1/6W	
R803	1-246-991-00	CARBON	150	5%	1/8W	F
R805	1-249-409-11	CARBON	220	5%	1/6W	
R806	1-249-439-11	CARBON	68K	5%	1/6W	
R807	1-249-432-11	CARBON	18K	5%	1/6W	
R809	1-249-435-11	CARBON	33K	5%	1/6W	
R810	1-249-424-11	CARBON	3.9K	5%	1/6W	
R811	1-249-435-11	CARBON	33K	5%	1/6W	
R812	1-249-433-11	CARBON	22K	5%	1/6W	
R813	1-249-424-11	CARBON	3.9K	5%	1/6W	
R814	1-249-436-11	CARBON	39K	5%	1/6W	
R815	1-249-434-11	CARBON	27K	5%	1/6W	
R816	1-249-417-11	CARBON	1K	5%	1/6W	
R817	1-249-417-11	CARBON	1K	5%	1/6W	
R818	1-249-433-11	CARBON	22K	5%	1/6W	
R820	1-249-416-11	CARBON	820	5%	1/6W	
R821	1-249-411-11	CARBON	330	5%	1/6W	
R822	1-249-435-11	CARBON	33K	5%	1/6W	
R823	1-249-427-11	CARBON	6.8K	5%	1/6W	
R825	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R828	1-249-425-11	CARBON	4.7K	5%	1/6W	
R829	1-249-429-11	CARBON	10K	5%	1/6W	
R830	1-249-429-11	CARBON	10K	5%	1/6W	
R831	1-249-425-11	CARBON	4.7K	5%	1/6W	
R832	1-249-429-11	CARBON	10K	5%	1/6W	
R833	1-249-429-11	CARBON	10K	5%	1/6W	
R834	1-249-437-11	CARBON	47K	5%	1/6W	
R835	1-249-437-11	CARBON	47K	5%	1/6W	
R836	1-249-425-11	CARBON	4.7K	5%	1/6W	
R837	1-249-417-11	CARBON	1K	5%	1/6W	
R838	1-215-866-11	METAL OXIDE	330	5%	1W	F
R839	1-215-866-11	METAL OXIDE	330	5%	1W	F
R840	1-249-429-11	CARBON	10K	5%	1/6W	
R841	1-247-757-11	CARBON	2.7K	5%	1/2W	
R845	1-215-475-00	METAL	180K	1%	1/6W	
R851	1-249-413-11	CARBON	470	5%	1/6W	
R852	1-249-407-11	CARBON	150	5%	1/6W	
R853	1-247-887-00	CARBON	220K	5%	1/6W	
R854	1-249-417-11	CARBON	1K	5%	1/6W	
R855	1-215-430-00	CARBON	2.4K	5%	1/6W	
R856	1-249-417-11	CARBON	1K	5%	1/6W	
R857	1-215-491-00	CARBON	820K	5%	1/6W	
R860	1-249-432-11	CARBON	18K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
		VARIABLE RESISTOR				
RV501	1-228-577-00	RES, ADJ, CARBON 220				
RV502	1-226-850-00	RES, ADJ, CARBON 4.7K				
RV503	1-228-724-00	RES, ADJ, CARBON 10K				
RV504	1-228-160-11	RES, ADJ, METAL GLAZE 5K				
RV505	1-222-344-00	RES, ADJ, CARBON 5K				
RV506	1-223-102-00	RES, ADJ, WIREWOUND 120				
RV507	1-226-854-00	RES, ADJ, CARBON 100K				
RV509	1-224-249-XX	RES, ADJ, METAL GLAZE 1K				
RV801	1-228-724-00	RES, ADJ, CARBON 10K				
RV802	1-226-847-00	RES, ADJ, CARBON 1K				
RV803	1-226-847-00	RES, ADJ, CARBON 1K				
RV804	1-228-725-00	RES, ADJ, CARBON 22K				
RV805	1-228-725-00	RES, ADJ, CARBON 22K				
RV806	1-228-725-00	RES, ADJ, CARBON 22K				
RV807	1-228-725-00	RES, ADJ, CARBON 22K				
RV808	1-226-855-00	RES, ADJ, CARBON 220K				
RV809	1-226-857-00	RES, ADJ, CARBON 470K				
		SPARK GAP				
SG501	1-519-063-XX	DISCHARGING GAP				
		TRANSFORMER				
T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE				
T503	1-421-520-00	TRANSFORMER, FERRITE (PHT)				
T801	1-421-245-11	TRANSFOMER, PZN CUSHION				
		THERMISTOR				
TH802	1-806-213-00	THERMISTOR				
TH803	1-800-626-00	THERMISTOR				
**********						
⚠	1-413-179-11	GA BOARD (SWITCHING REGULATOR)				
		********				
	2-430-308-01	INSULATOR (TK-03), TR				
	*2-430-742-00	BRACKET-RIGHT (SR-12), L				
	*2-430-743-00	BRACKET-LEFT (SR-12)				
	2-430-773-01	+PSW 3X6				
	*2-430-947-00	PLATE, GROUND				
	2-434-060-01	+PSW 3X18				
	3-671-893-00	CLAMP (LOW TYPE)				
	4-310-385-00	HOLDER, WIRE				
	*4-323-833-00	HEAT SINK, PIN OUT				
		CAPACITOR				
C601	⚠ 1-130-806-21	FILM	0.10MF	10%	400V	
C602	⚠ 1-161-742-51	CERAMIC	2200PF	20%	400V	
C603	⚠ 1-161-742-51	CERAMIC	2200PF	20%	400V	
C604	⚠ 1-161-742-51	CERAMIC	2200PF	20%	400V	
C605	⚠ 1-125-268-11	ELECT	47MF	20%	400V	
C606	⚠ 1-124-023-51	ELECT	4.7MF	20%	350V	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

GA GB

Ref.No.	Part No.	Description			Remark
C607	⚠1-124-023-51	ELECT	4.7MF	20%	350V
C610	⚠1-161-963-11	CERAMIC	100PF	20%	2KV
C611	⚠1-161-912-11	CERAMIC	560PF	10%	500V
C612	⚠1-161-912-11	CERAMIC	560PF	10%	500V
C613	⚠1-161-912-11	CERAMIC	560PF	10%	500V
C614	⚠1-161-912-11	CERAMIC	560PF	10%	500V
C615	⚠1-161-989-11	CERAMIC	2200PF	10%	500V
C616	⚠1-130-516-51	FILM	0.01MF	10%	50V
C617	⚠1-130-520-51	FILM	0.022MF	1%	50V
C618	⚠1-123-357-51	ELECT	22MF	20%	50V
C619	⚠1-130-528-51	FILM	0.1MF	10%	50V
C620	⚠1-123-575-51	ELECT	100MF		160V
C621	⚠1-123-349-51	ELECT	1000MF	20%	35V
C622	⚠1-123-324-51	ELECT	1000MF	20%	16V
C623	⚠1-123-575-51	ELECT	100MF		160V
C624	⚠1-123-333-51	ELECT	100MF	20%	25V
C625	⚠1-123-333-51	ELECT	100MF	20%	25V

DIODE

D601	⚠8-719-300-53	DIODE CTU-38S
D602	⚠8-719-300-52	DIODE CTU-38R
D603	⚠8-719-903-02	DIODE ESAC33-02C
D604	⚠8-719-903-02	DIODE ESAC33-02C
D605	⚠8-719-900-93	DIODE V09C
D606	⚠8-719-911-19	DIODE 1SS119
D607	⚠8-719-100-61	DIODE RD11E-B2
D608	⚠8-719-100-34	DIODE RD5.6E-B1
D609	⚠8-719-100-29	DIODE RD5.1E-B1
D610	⚠8-719-100-29	DIODE RD5.1E-B1
D611	⚠8-719-200-01	DIODE 10E1
D612	⚠8-719-100-34	DIODE RD5.6E-B1
D613	⚠8-719-100-34	DIODE RD5.6E-B1
D614	⚠8-719-200-01	DIODE 10E1

COIL

L601	⚠1-421-606-11	TRANSFORMER, LINE FILTER
L602	⚠1-410-052-11	COIL, CHOKE (MAIN)
L603	⚠1-410-053-11	COIL, CHOKE
L604	⚠1-408-933-11	COIL, CHOKE
L605	⚠1-408-933-11	COIL, CHOKE
L606	⚠1-408-933-11	COIL, CHOKE

TRANSISTOR

Q601	⚠8-729-301-76	TRANSISTOR STR8124-R
Q602	⚠8-729-102-02	TRANSISTOR 2SD1020-J
Q603	⚠8-729-102-02	TRANSISTOR 2SD1020-J
Q604	⚠8-729-178-52	TRANSISTOR 2SC2785-J
Q605	⚠8-729-177-42	TRANSISTOR 2SD774-3

RESISTOR

R601	⚠1-244-921-11	CARBON	100K	5%	1/2W
R602	⚠1-246-487-25	CARBON	3.9K	5%	1/4W
R603	⚠1-212-946-51	FUSE	3.3	5%	1/2W F

Ref.No.	Part No.	Description				Remark
R604	⚠1-246-449-25	CARBON	100	5%	1/4W	
R605	⚠1-244-921-11	CARBON	100K	5%	1/2w	
R606	⚠1-246-487-25	CARBON	3.9K	5%	1/4W	
R607	⚠1-212-946-51	FUSE	3.3	5%	1/2W	F
R608	⚠1-246-449-25	CARBON	100	5%	1/4W	
R609	⚠1-244-873-11	CARBON	1K	5%	1/2W	
R610	⚠1-246-461-25	CARBON	330	5%	1/4W	
R611	⚠1-246-521-25	CARBON	100K	5%	1/4W	
R612	⚠1-246-497-25	CARBON	10K	5%	1/4W	
R613	⚠1-246-482-25	CARBON	2.4K	5%	1/4W	
R615	⚠1-213-151-61	METAL OXIDE FILM	4.7K	5%	1W	F
R616	⚠1-246-453-25	CARBON	150	5%	1/4W	
R617	⚠1-246-417-25	CARBON	4.7	5%	1/4W	
R618	⚠1-217-465-21	FUSE	0.47K	10%	1W	F
R619	⚠1-217-465-21	FUSE	0.47K	10%	1W	F
R620	⚠1-246-418-25	CARBON	5.1	5%	1/4W	

TRANSFORMER

T601	⚠1-447-764-11	TRANSFORMER, CONVERTER
T602	⚠1-437-102-12	TRANSFORMER, DRIVE
T603	⚠1-421-460-31	TRANSFORMER, CURRENT

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⚠*1-611-903-11 GB BOARD (SWITCHING REGULATOR)
****

CAPACITOR

C651	⚠1-130-528-51	FILM	0.1MF	10%	50V
C652	⚠1-130-528-51	FILM	0.1MF	10%	50V
C653	⚠1-124-265-51	ELECT	33MF	20%	25V
C654	⚠1-130-027-51	FILM	0.0056MF	5%	50V
C655	⚠1-130-512-51	FILM	4700PF	10%	50V
C656	⚠1-130-528-51	FILM	0.1MF	10%	50V
C657	⚠1-123-330-51	ELECT	22MF	20%	25V

CONNECTOR

CN651	⚠*1-564-164-11	PIN, CONNECTOR 7P

DIODE

D651	⚠8-719-911-19	DIODE 1SS119
D652	⚠8-719-911-19	DIODE 1SS119
D653	⚠8-719-911-19	DIODE 1SS119
D654	⚠8-719-100-34	DIODE RD5.6E-B1
D665	⚠8-719-109-89	DIODE RD5.6ES-B2

IC

IC651	⚠8-759-906-22	IC MB3759PF

TRANSISTOR

Q651	⚠8-729-117-52	TRANSISTOR 2SA1175-J
Q652	⚠8-729-178-52	TRANSISTOR 2SC2785-J

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				Remark
		RESISTOR				
R651	⚠1-247-855-41	CARBON	10K	5%	1/6W	
R652	⚠1-247-845-41	CARBON	3.9K	5%	1/6W	
R653	⚠1-247-862-41	CARBON	20K	5%	1/6W	
R654	⚠1-247-864-41	CARBON	24K	5%	1/6W	
R655	⚠1-247-836-41	CARBON	1.6K	5%	1/6W	
R656	⚠1-247-879-41	CARBON	100K	5%	1/6W	
R657	⚠1-247-835-41	CARBON	1.5K	5%	1/6W	
R658	⚠1-247-881-41	CARBON	120K	5%	1/6W	
R659	⚠1-247-854-41	CARBON	9.1K	5%	1/6W	
R660	⚠1-214-777-51	METAL	100K	1%	1/4W	
※R661	⚠1-214-747-51	METAL	5.6K	1%	1/4W	
※R661	⚠1-214-748-51	METAL	6.2K	1%	1/4W	
R662	⚠1-247-861-41	CARBON	18K	5%	1/6W	
R663	⚠1-247-852-41	CARBON	7.5K	5%	1/6W	
R664	⚠1-247-839-41	CARBON	2.2K	5%	1/6W	
R666	⚠1-247-831-41	CARBON	1.0K	5%	1/6W	
R667	⚠1-247-839-41	CARBON	2.2K	5%	1/6W	
※R669	⚠1-214-769-51	METAL	47K	1%	1/4W	
※R669	⚠1-214-770-51	METAL	51K	1%	1/4W	
※R669	⚠1-214-771-51	METAL	56K	1%	1/4W	
※R669	⚠1-214-772-51	METAL	62K	1%	1/4W	
※R669	⚠1-214-773-51	METAL	68K	1%	1/4W	
※R669	⚠1-214-774-51	METAL	75K	1%	1/4W	
※R669	⚠1-214-775-51	METAL	82K	1%	1/4W	
※R669	⚠1-214-776-51	METAL	91K	1%	1/4W	
※R669	⚠1-214-777-51	METAL	100K	1%	1/4W	
※R669	⚠1-214-778-51	METAL	110K	1%	1/4W	
※R669	⚠1-214-779-51	METAL	120K	1%	1/4W	
※R669	⚠1-214-780-51	METAL	130K	1%	1/4W	
※R669	⚠1-214-781-51	METAL	150K	1%	1/4W	
※R669	⚠1-214-782-51	METAL	160K	1%	1/4W	
※R669	⚠1-214-783-51	METAL	180K	1%	1/4W	
※R669	⚠1-214-784-51	METAL	200K	1%	1/4W	
※R669	⚠1-214-785-51	METAL	220K	1%	1/4W	
※R669	⚠1-214-786-51	METAL	240K	1%	1/4W	
※R669	⚠1-214-787-51	METAL	270K	1%	1/4W	
※R669	⚠1-214-788-51	METAL	300K	1%	1/4W	
※R669	⚠1-214-952-51	METAL	330K	1%	1/4W	
※R669	⚠1-214-953-51	METAL	360K	1%	1/4W	
※R669	⚠1-214-954-51	METAL	390K	1%	1/4W	
※R669	⚠1-214-955-51	METAL	430K	1%	1/4W	
※R669	⚠1-214-956-51	METAL	470K	1%	1/4W	
※R669	⚠1-214-957-51	METAL	510K	1%	1/4W	
※R669	⚠1-214-958-51	METAL	560K	1%	1/4W	
※R669	⚠1-214-959-51	METAL	620K	1%	1/4W	
※R669	⚠1-214-960-51	METAL	680K	1%	1/4W	
※R669	⚠1-214-961-51	METAL	750K	1%	1/4W	
※R669	⚠1-214-962-51	METAL	820K	1%	1/4W	
※R669	⚠1-214-963-51	METAL	910K	1%	1/4W	
※R669	⚠1-214-964-51	METAL	1M	1%	1/4W	

Ref.No.	Part No.	Description	Remark
		VARIABLE RESISTOR	
RV651	⚠1-228-141-11	RES, ADJ, METAL GLAZE 500	
		**********	
		MISCELLANEOUS	
		**********	
	⚠1-228-482-14	RESISTOR ASSY, HIGH-VOLTAGE	
	⚠1-413-179-11	SWITCHING REGULATOR (TK-09)	
	⚠1-451-204-63	DEFLECTION YOKE (SY-108B)	
	1-452-032-00	MAGNET, DISK; 10MM ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
	1-452-146-00	BMC MAGNET	
	⚠1-452-337-11	NECK ASSY, CRT (NA304)	
	⚠1-534-820-13	POWER CORD	
	1-536-392-XX	L-TYPE TERMINAL STRIP	
	1-543-179-00	CORE, RING	
L901	⚠1-426-087-42	COIL, DEGAUSSING	
S901	⚠1-554-967-12	SWITCH, PUSH (AC POWER)(1 KEY)	
SP901	1-503-109-00	SPEAKER	
T502	⚠1-439-322-12	TRANSFORMER ASSY, FLYBACK	
V901	⚠8-737-251-05	PICTURE TUBE (A49JHT00X)	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	Part No.	Description	Remark
	4-312-246-00	BAG, PROTECTION	
	4-363-322-01	INDIVIDUAL CARTON	
	4-370-943-01	CUSHION (UPPER) (ASSY)	
	4-370-944-01	CUSHION (LOWER) (ASSY)	
	4-370-956-01	CUSHION (LOWER INNER)	
	4-493-915-11	MANUAL, INSTRUCTION	

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• ※ : Selected to yield optimum performance.

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TV Group

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